

CONTINUING (1.53(b)) UTILITY PATENT APPLICATION TRANSMITTAL

(Only for continuing applications under 37 CFR 1.53(b))

Attorney Docket No. 122.1046-D/IMG

First Named Inventor: Tokimori TOMITA et al.

Title: SERVICE POINT MANAGEMENT SYSTEM FOR USE IN SA
PROMOTION SERVICES

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APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents,
Box Patent Application
Washington, DC 20231

1. ☒ Fee Transmittal Form
2. ☒ Specification, Claims & Abstract [Total Pages: 52]
3. ☒ Drawing(s) (35 USC 113) [Total Sheets: 54]
4. ☒ Oath or Declaration [Total Pages: 2]
 - a. ☐ Newly executed (original or copy)
 - b. ☒ Copy from a prior application (37 CFR 1.63(d)) (see Box 18)
5. ☐ This application is filed by fewer than all the inventors named in the prior nonprovisional application.
 - a. ☐ DELETE the following inventor(s) named in the prior nonprovisional application:
 - b. ☐ The inventor(s) to be deleted are set forth on a separate sheet attached hereto.
6. ☒ Incorporation by Reference (usable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
7. ☐ Microfiche Computer Program (Appendix)
8. ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Copy
 - b. ☐ Paper Copy (identical to computer copy)
 - c. ☐ Statement verifying identity of above copies

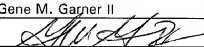
ACCOMPANYING APPLICATION PARTS

9. ☒ Copy of Assignment Papers as filed in Parent (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☒ Foreign priority benefit under 35 U.S.C. §119 is claimed.
 - a. ☒ Certified Copy of Priority Document(s) filed in prior application No. 08/187,543.
 - b. ☐ Certified Copy of Priority Document(s) enclosed.
 - c. ☐ Certified Copy of Priority Document(s) to follow.
13. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
14. ☒ Preliminary Amendment
 - a. ☒ enclosed herewith.
 - b. ☒ incorporated herein (see Box 18).
15. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
16. ☐ Small Entry Statement(s) ☐ Statement filed in prior application, status still proper and desired.
17. ☒ Other: Letter Requesting Approval of Changes to the Drawings and Figures 1, 2, 8(A), 8(B), 10(A), 10(B), 11(A), 11(B), 12(A), 12(B), 13(A), 13(B), 14(A), 14(B), 15(A), 15(B), 16(A), 16(B), 17(A), 17(B), 18(A), 18(B), 19(A), 19(B), 20, 21(A), 21(B), 22(A), 23, 25(A), 26(A), 27(A), 28(A), 29(A), 29(B), and 31

18. CONTINUING APPLICATION, check appropriate box and supply the requisite information below:[] Continuation [X] Divisional [] Continuation-in-part (CIP) of prior application No: 08/864,762Prior application information: Examiner: TKACS, S.Group/Art Unit: 2761

* * *

Preliminary Amendment:[X] Cancel in this application original claims 10, 12, 17, 18, 24-26, 28-30, 32-35 and 37 of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)[X] Amend the specification by inserting before the first line the sentence:
--This application is a Divisional of application number 08/864,762, filed May 29, 1997, now pending which is a Continuation of application number 08/187,543, now abandoned--**19. NEW CORRESPONDENCE ADDRESS * CUSTOMER NO. 21,171**STAAS & HALSEY LLP
700 Eleventh Street, N.W.
Suite 500
Washington, DC 20001Telephone: (202) 434-1500
Facsimile: (202) 434-1501**20. SIGNATURE OF ATTORNEY OR AGENT**

NAME	Gene M. Garner II	REGISTRATION NO.	34,172
SIGNATURE		DATE	Oct 8, 1999

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Tokimori TOMITA et al.

Prior Application Group Art Unit: 2761

Div. of Application No. 08/864,762

Prior Application Examiner: S. Tkacs

Filed: October 8, 1999

For: SERVICE POINT MANAGEMENT SYSTEM FOR USE IN SALES PROMOTION SERVICES

PRELIMINARY AMENDMENT

*Assistant Commissioner for Patents
Washington, D.C. 20231*

Sir:

This is a divisional application of application number 08/864,762, which is a file wrapper continuation (FWC) application of prior application U.S. Serial No. 08/187,543.

If any further fees are required in connection with the filing of this Preliminary Amendment, please charge same to our Deposit Account No. 19-3935.

The following amendments and remarks are respectfully submitted.

IN THE SPECIFICATION:

Please **AMEND** the specification as follows:

Page 1, line 15, change "points" to --"points"--; and
line 28, change "customers" to --customers--.

Page 2, line 4, delete "to", and change "put" to --puts--.

Page 3, line 9, after "needs" insert --,--;
line 28, after "conditions" insert --, thereby--; and
line 32, after "points," insert --thereby--.

Page 4, line 4, delete ", comprising" and insert --. The service point management system of the present invention comprises"; before "point" insert --a-, and change "issue" to --issuer--;
line 5, delete "means for";
line 6, before "point" insert --a--;
line 7, delete "accumulation means for" and insert --accumulator--;
line 8, before "point" insert --a--, and delete "notification means for" and insert --notifier--;
line 9, before "customer" (second occurrence) insert --a--;
line 10, delete "identification means for" and insert --identifier--;
line 12, delete ", the" and insert --. The--, and change "notification" to --notifier--;
line 13, delete "means notifying" and insert --notifies--;

line 14, delete "identification means" and insert --identifier--;

line 23, after "up" insert --the--;

line 26, delete "is capable of" and insert --provide--; and

line 26, delete "providing", and delete "transaction forms" and insert --forms of transaction--.

Page 5,

line 1, after "customer" insert --,--, delete "or" (first occurrence), and after "terminal" insert --,--;

line 25, delete in its entirety;

line 26, add paragraph indentation;

line 30, delete in its entirety;

line 31, add paragraph indentation;

line 32, delete "issue means" and insert --issuer--;

line 33, delete in its entirety;

line 34, add paragraph indentation; and

line 37, delete in its entirety.

Page 6,

line 1, add paragraph indentation;

line 4, delete in its entirety;

line 5, add paragraph indention;
line 8, delete in its entirety;
line 9, add paragraph indention;
line 12, delete in its entirety;
line 13, add paragraph indention;
line 17, delete in its entirety;
line 18, add paragraph indention;
line 22, delete in its entirety;
line 23, add paragraph indention;
line 26, delete in its entirety;
line 27, add paragraph indention;
line 30, delete in its entirety;
line 31, add paragraph indention;
line 34, delete in its entirety;
line 35, add paragraph indention.

Page 7, line 1, delete in its entirety;
line 2, add paragraph indention;
line 7, delete in its entirety;

line 8, add paragraph indentation;

line 10, delete "accumulation means" and insert --accumulator--;

line 11, delete in its entirety;

line 12, add paragraph indentation;

line 14, delete "accumulation means" and insert --accumulator--;

line 17, delete in its entirety;

line 18, add paragraph indentation;

line 20, delete in its entirety;

line 21, add paragraph indentation;

line 24, delete in its entirety;

line 25, add paragraph indentation;

line 28, delete in its entirety;

line 29, add paragraph indentation;

line 32, delete in its entirety;

line 33, add paragraph indentation;

line 36, delete in its entirety;

line 37, add paragraph indentation.

Page 8,

line 3, delete in its entirety;

line 4, add paragraph indention.

line 10, change the heading from "PREFERRED EMBODIMENTS OF THE INVENTION" to --DESCRIPTION OF THE PREFERRED EMBODIMENTS--;

line 13, delete "numeral 1 is a", and delete "having" and insert --1 comprises--;

line 14, after "memories" insert --(which are not shown in Figure 1)--;

line 15, delete "Numeral 2";

line 16, delete "is", change "data" to --Data--, delete "means, 3 is" and insert --2 is included in--, and delete ", 4" and insert --3.--;

line 17, delete "is" and insert --Processor 1 comprises--, delete "identification means, 5 is a" and insert --identifier 4,--;

line 18, delete "notification means, 6 is a" and insert --notifier 5,--, and after "storage" insert --6,--;

line 19, delete "means, 7 is a", and delete "accumulation means, 8 is a" and insert --accumulator 7,--;

line 20, delete "means, 9 is a" and insert --8,--, delete "issue means" and insert --issuer 9--, and delete "10 is a";

line 21, delete "management means" and insert --manager 10, which may be implemented as software programs--;

line 27, delete "means";

line 31, delete "identification means" and insert --identifier--;

line 35, delete "notification means" and insert --notifier--; and

line 37, delete "identification means" and insert --identifier--.

Page 9,

line 3, delete "means";

line 7, delete "accumulation means" and insert --accumulator--;

line 8, delete "issue means" and insert --issuer--;

line 9, delete "means";

line 11, delete "notification means" and insert --notifier--;

line 12, delete "issue means" and insert --issuer--, and change "management" to --manager--;

line 13, delete "means";

line 15, delete "issue means" and insert --issuer--;

line 16, change "accumulation" to --accumulator--;

line 17, delete "means";

line 18, delete "identification means" and insert --identifier--;

line 28, delete "has" and insert --comprises--;

line 29, delete "identification means" and insert --identifier--, and delete "notification means" and insert --notifier--;

line 30, delete "accumulation means" and insert --accumulator--, and delete "issue means" and insert --issuer--; and

line 32, delete "has" and insert --comprises--.

Page 10,

line 5, change "(1)" to -- 1 --;

line 6, delete "identification means" and insert --identifier--;

line 9, delete "notification means" and insert --notifier--;

line 10, change "(2)" to -- 2 --;

line 11, delete "issue means" and insert --issuer--;

line 12, delete "accumulation means" and insert --accumulator--;

line 13, delete "accumulation means" and insert --accumulator--; and

line 15, delete "notification means" and insert --notifier-- (both occurrences).

Page 15,

line 30, after "and" insert --the--; and

line 37, after "of" insert --the--.

- Page 16, line 1, delete "issue means" and insert --issuer 9--, and delete "the figure" and insert --figures 8(A) and 8(B)--;
- line 3, delete "has" and insert --comprises--;
- line 20, delete "accumulation means" and insert --accumulator--;
- line 23, delete "management means" and insert --manager--; and
- line 24, delete "issuer means" and insert --issuer--.
- Page 19, line 5, delete "accumulation" and insert --accumulator--;
- line 6, delete "means", change "Fig. 11" to --Figs. 11(A) and (B)--; and
- line 25, delete "accumulation means" and insert --accumulator--, and change "Fig. 14" to --Figs. 12(A) and (B)--.
- Page 20, line 18, delete "accumulation means" and insert --accumulator--.
- Page 22, line 35, delete "accumulation means" and insert --accumulator--.
- Page 23, line 34, delete "accumulation means" and insert --accumulator--.
- Page 24, line 33, delete "accumulation" and insert --accumulator--; and

line 34, delete "means".

Page 25, line 14, delete "accumulation means" and insert --accumulator--.

Page 26, line 13, delete "accumulation means" and insert --accumulator--.

Page 27, line 1, delete "accumulation means" and insert --accumulator--;
line 3, delete "issue means" and insert --issuer--;
line 6, delete "means";
line 11, delete "means"; and
line 35, delete "means".

Page 28, line 2, delete "means"; and
line 15, delete "accumulation means" and insert --accumulator--.

Page 29, line 20, delete "notification means" and insert --notifier--;
line 22, delete "accumulation" and insert --accumulator--;
line 23, delete "means"; and
line 24, delete "means".

Page 31, line 19, delete "has" and insert --comprises--.

Page 32, line 37, delete "explain" and insert --show--.

Page 38, line 5, delete "has" and insert --comprises--; and
line 9, delete "includes" and insert --comprises--.

Page 39, line 13, delete "identification means" and insert --identifier--, and delete
"of" and insert --included in--;
line 22, after "arranged" insert --a--, and delete "issue means for" and
insert --issuer--;
line 23, before "point" insert --a--;
line 24, delete "accumulation means for" and insert --accumulator--;
line 25, before "point" insert --a--, and delete "notification means for" and
insert --notifier--;
line 26, before "customer" insert --and a--, and delete "identification" and
insert --identifier--;
line 27, delete "means for"; and
line 29, delete "notification means" and insert --notifier--.

Page 40, line 4, delete "issue means" and insert --issuer--;
 line 26, delete "issue means" and insert --issuer--;
 line 29, delete "issue means" and insert --issuer--;
 line 32, delete "issue means" and insert --issuer--; and
 line 35, delete "issue means" and insert --issuer--.

Page 41, line 1, delete "issue means" and insert --issuer--;
 line 5, delete "issue means" and insert --issuer--;
 line 9, delete "notification means" and insert --notifier--;
 line 11, delete "notification means" and insert --notifier--;
 line 14, delete "notification means" and insert --notifier--;
 line 17, delete "notification means" and insert --notifier--;
 line 19, delete "notification means" and insert --notifier--;
 line 23, delete "notification means" and insert --notifier--;
 line 27, delete "notification means" and insert --notifier--;
 line 31, delete "notification means has" and insert --notifier comprises--;
 line 32, delete "means for"; and
 line 37, delete "notification means has" and insert --notifier comprises--.

Page 42, line 1, delete "means for";

line 6, delete "notification means" and insert --notifier--;

line 9, delete "notification means" and insert --notifier--;

line 12, delete "notification means" and insert --notifier--;

line 16, delete "notification means" and insert --notifier--;

line 19, delete "notification means" and insert --notifier--;

line 22, delete "notification means" and insert --notifier--;

line 26, delete "notification means" and insert --notifier--;

line 28, delete "notification means" and insert --notifier--;

line 31, delete "notification means" and insert --notifier--; and

line 34, delete "notification means" and insert --notifier--.

Page 43, line 2, delete "accumulation means has" and insert --accumulator comprises a--;

line 3, delete "means for";

line 5, delete "means";

line 8, delete "means";

line 11, "means has means for" --comprises a section--;

line 22, delete "accumulation means" and insert --accumulator--; and

line 26, delete "accumulation means" and insert --accumulator--.

Page 44, line 6, delete "accumulation means" and insert --accumulator--;

line 16, delete "issue means" and insert --issuer--;

line 18, delete "issue means" and insert --issuer--;

line 20, delete "issue means" and insert --issuer--;

line 22, delete "issue means" and insert --issuer--;

line 26, delete "accumulation means" and insert --accumulator--;

line 32, delete "is capable of"; and

line 33, change "notifying" to --notifies--.

Page 45, line 11, delete "may", change "improve" to --improves--, and delete "to" and insert --in--.

IN THE CLAIMS:

Please **AMEND** the claims as follows:

1. **(AMENDED)** A point management system employing a computer for managing points issued to each customer who receives service according to the issued points, comprising:

point issue means for issuing the points to the customer according to transactions performed by the customer;

point accumulation means for calculating and accumulating the issued points for more than two transactions;

point notification means for notifying the customer of point information comprising the issued points; and

customer identification means for identifying the customer according to customer identification [data entered through a customer or store terminal, the point notification means for notifying the customer identified by the customer identification means of the customer's cumulative point information before the customer carries out transactions] information.

wherein the point issue means comprises rate management means for changing a point calculation rate according to each of the more than two transactions.

2. (AMENDED) The point management system according to claim 1, wherein the point notification means notifies the customer of the point information as primary data through [the] a customer terminal as soon as the customer terminal is turned ON.

3. (AMENDED) The point management system according to claim 1, wherein the point notification means notifies the customer identified by the customer identification means of the point information as primary data through [the] a store terminal.

4. **(AMENDED)** The point management system according to claim 1, wherein the point issue means [has] includes rate management means for changing a point calculation rate according to purchase conditions.

5. **(NOT AMENDED HEREIN)** The point management system according to claim 4, wherein the rate management means changes the point calculation rate according to conditions set for purchases carried out on a predetermined day, in a predetermined period, or during predetermined hours.

6. **(NOT AMENDED HEREIN)** The point management system according to claim 4, wherein the rate management means changes the point calculation rate according to conditions set for purchases carried out at stores in a specific area or at a specific counter in a store.

7. **(NOT AMENDED HEREIN)** The point management system according to claim 4, wherein the rate management means increases the point calculation rate according to conditions set for sales promotion commodities or a specific series of commodities.

8. **(NOT AMENDED HEREIN)** The point management system according to claim 4, wherein the rate management means changes the point calculation rate according to conditions set for a

predetermined number of purchase transactions, the number of purchase transactions carried out in a predetermined period, or the number of purchase transactions carried out by visiting stores.

9. **(NOT AMENDED HEREIN)** The point management system according to claim 4, wherein the rate management means changes the point calculation rate according to conditions set for the number of accesses at a customer terminal in a specific area, or a time band for accessing the customer terminal.

11. **(NOT AMENDED HEREIN)** The point management system according to claim 1, wherein the point notification means notifies the customer of the point information in images, by voice, or both.

13. **(NOT AMENDED HEREIN)** The point management system according to claim 11, wherein the point notification means displays a graph of cumulative points and target points.

14. **(AMENDED)** The point management system according to claim 11, wherein the point notification means displays [the] target points as the whole of a given screen area and [the] cumulative points as an area proportional to the target points area with a different color or brightness.

15. (AMENDED) The point management system according to claim 11, wherein the point notification means displays [the] target points of an object requested by the customer as an area and [the] cumulative points as a proportional part of the target points area with a different color or brightness.

16. (AMENDED) The point management system according to claim 11, wherein the point notification means sets an area for [the] target points of an object requested by the customer and displays part of the area in proportion to the [cumulative] accumulated points.

19. (AMENDED) The point management system according to claim [11] 13, wherein the point notification means is installed in a store shopping-cart or videocart equipped with a display screen device and notifies the customer of the point information or specific commodity's point information sent in a specific area in a store.

20. (AMENDED) The point management system according to claim 13 [11], wherein the point notification means is installed in a store cart and notifies the customer of the point information [in voices] by voice.

21. **(NOT AMENDED HEREIN)** The point management system according to claim 11, wherein the point notification means includes a display installed in a store and displays point information of specific customers or customers belonging to predetermined groups.

22. **(AMENDED)** The point management system according to claim 1, wherein the point notification means uses available communication circuits to notify the customer of point information [such as] including target points for a service requested by the customer, the customer's cumulative points, or a shortage of points relative to the target points.

23. **(AMENDED)** The point management system according to claim 1, wherein the point accumulation means [has] includes condition monitor means for changing the [cumulative] accumulated points according to predetermined conditions.

27. **(NOT AMENDED HEREIN)** The point management system according to claim 1, wherein the service is provided to the customer through communication circuits.

31. **(NOT AMENDED HEREIN)** The point management system according to claim 1, wherein the point information is supplied to the customer through the customer or store terminal through communication circuits.

36. **(NOT AMENDED HEREIN)** The point management system according to claim 1, wherein the point issue means issues points to the customer without disclosing points allocated for commodities.

38. **(NOT AMENDED HEREIN)** The point management system according to claim 1, wherein the point issue means issues bonus points to the customer if the number of transactions made by the customer reaches a predetermined number.

39. **(NOT AMENDED HEREIN)** The point management system according to claim 1, wherein the point accumulation means collects and accumulates points issued to each customer belonging to a group if the customer identification means identifies that the customer belongs to the group.

Please **ADD** new claims 40-66 as follows:

40. **(NEW)** The point management system according to claim 1, wherein the point notification means notifies the customer of the point information as primary data of a transaction.

41. **(NEW)** The point management system according to claim 1, wherein the point notification means further comprises communication means for notifying the customer of the point information in off-hours using communication circuits.

42. (NEW) The point management system according to claim 41, wherein the communication means supplies the customer with information and services concerning the point information by one of a terminal and a bidirectional television display.

43. (NEW) The point management system according to claim 1, wherein the point notification means further comprises communication means installed in one of a cart and a videocart equipped with a display screen device, said communication means for notifying the customer of one of the point information and specific commodity point information sent to a specific area.

44. (NEW) The point management system according to claim 1, wherein the point notification means comprises communication means installed in a cart, said communication means for notifying the customer of the point information.

45. (NEW) The point management system according to claim 1, wherein the point notification means further comprises data processing means for notifying the customer of the point information by one of images, voice, and both.

46. (NEW) The point management system according to claim 45, wherein the data processing means displays a graph of cumulative points and target points.

47. (NEW) The point management system according to claim 45, wherein the data processing means displays target points as a whole of a given screen area and cumulative points as an area proportional to target points area with one of a different color, a different brightness, and a different color and a different brightness.

48. (NEW) The point management system according to claim 45, wherein the data processing means displays target points of an object requested by the customer as an area and cumulative points as a proportional part of the target points area with one of a different color and a different brightness.

49. (NEW) The point management system according to claim 45, wherein the data processing means sets an area for target points of an object requested by the customer and displays part of the area in proportion to cumulative points.

51. (NEW) The point management system according to claim 45, wherein the data processing means stores one of information of specific customers, information of groups, and information of specific customers and groups.

54. (NEW) A point management system employing a computer for managing points issued to each customer who receives service according to issued points, comprising:

point issue means for issuing the points to the customer according to transactions performed by the customer;

point accumulating means for calculating and accumulating the issued points;

point storing means for storing point information comprising the issued points for each customer identification;

point notification means for notifying the customer of the point information; and

customer identification means for identifying the customer according customer identification information,

wherein the point notification means notifies the customer of the point information before the customer carries out transactions.

55. (NEW) The point management system according to claim 54, wherein the computer comprises a customer terminal, and wherein the point notification means notifies the customer of the point information as primary data as soon as the customer terminal is turned ON.

56. (NEW) A point management system comprising a computer and managing points issued to each customer, each customer receiving service according to the issued points, said point management system comprising:

means for accumulating points issued to each, respective customer for more than two transactions;

rate management means for changing a point calculation rate according to each of the more than two transactions; and

means for notifying each customer of the points issued to each, respective customer before each, respective customer carries out a transaction.

57. (NEW) A point management system comprising a computer and managing points issued to each customer, each customer receiving service according to the issued points, said computer comprising a customer terminal and said point management system comprising:

means for accumulating points issued to each, respective customer for more than two transactions;

rate management means for changing a point calculation rate according to each of the more than two transactions; and

means for notifying on the customer terminal each, respective customer of the points issued to each, respective customer as primary data as soon as the customer terminal is turned ON.

58. (NEW) A point management system comprising a computer and managing points issued to each customer, each customer receiving service according to the issued points, said computer comprising a store terminal and said point management system comprising:

means for accumulating points issued to each, respective customer for more than two transactions;

rate management means for changing a point calculation rate according to each of the more than two transactions; and

means for notifying by a customer terminal each, respective customer of the points issued to each, respective customer as primary data through the store terminal, and prior to transactions performed by the customer.

59. (NEW) A point management system comprising a computer and managing points issued to each customer, each customer receiving service according to the issued points, said computer comprising and said point management system comprising:

means for accumulating points issued to each, respective customer for more than two transactions;

rate management means for changing a point calculation rate according to each of the more than two transactions; and

means for notifying each, respective customer of the points issued to each, respective customer by one of images, voice, and both, and prior to transactions performed by the customer.

60. (NEW) A point management method of a computer for managing points issued to each customer, each customer receiving service according to the issued points, said point management method comprising the steps of:

accumulating, by the computer, points issued to each, respective customer for more than two transactions;

changing a point calculation rate according to each of the more than two transactions; and

notifying, by the computer, each customer of the points issued to each, respective customer before each, respective customer carries out a transaction.

61. (NEW) A point management method of a computer for managing points issued to each customer, each customer receiving service according to the issued points, said computer comprising a customer terminal and said point management method comprising the steps of:

accumulating, by the computer, points issued to each, respective customer for more than two transactions;

changing a point calculation rate according to each of the more than two transactions; and

notifying by the customer terminal each, respective customer of the points issued to each, respective customer as primary data as soon as the customer terminal is turned ON.

62. (NEW) A point management method of a computer for managing points issued to each customer, each customer receiving service according to the issued points, said computer comprising a store terminal and said point management method comprising the steps of:

accumulating, by the computer, points issued to each, respective customer for more than two transactions;

changing a point calculation rate according to each of the more than two transactions; and

notifying by a customer terminal each, respective customer of the points issued to each, respective customer as primary data through the store terminal, and prior to transactions performed by the customer.

63. (NEW) A point management method of a computer and managing points issued to each customer, each customer receiving service according to the issued points, said point management method comprising the steps of:

accumulating, by the computer, points issued to each, respective customer for more than two transactions;

changing a point calculation rate according to each of the more than two transactions; and

notifying, by the computer, each, respective customer of the points issued to each, respective customer by one of images, voice, and both, and prior to transactions performed by the customer.

64. (NEW) The point management system according to claim 41, wherein the communication means is installed in a videocart equipped with a display screen device and notifies the customer of the point information sent to a specific area.

65. (NEW) The point management system according to claim 14, wherein the point notification means is installed in a store shopping-cart or videocart equipped with a display screen device and notifies the customer of the point information or specific commodity's point information sent in a specific area in a store.

66. (NEW) The point management system according to claim 14, wherein the point notification means is installed in a store cart and notifies the customer of the point information by voice.

REMARKS

Claims 10, 12, 17, 18, 24-26, 28-30, 32-35 and 37 are canceled. Claims 1-9, 11, 13-16, 19-23, 27, 31, 36 and 38-66 are pending herein. The above amendments are made to place the application in better condition for initial examination. Prompt and favorable action on the merits is earnestly solicited.

CONCLUSION

To the extent necessary, a petition for an extension of time under 37 C.F.R. § 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 19-3935 and please credit any excess fees to such deposit account.

Respectfully submitted

STAAS & HALSEY

By:



Gene M. Garner, II
Registration No. 34,172

Dated: October 8, 1999
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SERVICE POINT MANAGEMENT SYSTEM FOR USE
IN SALES PROMOTION SERVICES

5 BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a point management system for managing service points issued to customers through customer or store terminals according to customers' transactions. The service points are used for providing the customers with sales promotion services.

2. Description of the Related Art

In retail transactions, sales promotion service points (hereinafter referred to as the points) such as coupons, stamps, and service cards are issued. The coupons are issued or marks are stamped on a specific sheet according to the amount of purchase. When the number of coupons or marks reaches a predetermined figure, one can exchange them for commodities or notes, or partly pay for purchased commodities with them. Namely, the service points are a kind of sales promotion service. To issue the coupons, etc., a store must convert the amount of purchase into points. To exchange the coupons for commodities, the store must count the numbers of coupons presented by customers. This is troublesome and frequently involves errors. On the customers side, they must keep the coupons and marked sheets and see whether or not the number of the coupons or marks is exchangeable for commodities.

To reduce the troublesome work and risk of losing the coupons, the service points may be added up at a POS terminal at a checkout counter, and whether or not the points are exchangeable for predetermined commodities may be printed on a receipt, as disclosed in "POS Terminal Apparatus" of Japanese Unexamined Patent Publication (Kokai) No. 63-40995. This disclosure,

however, lets a customer know its cumulative points only after the checkout. In addition, actual service such as exchanging for service commodities is provided by salesclerks, to put a heavy load on a store. The service provided to customers is limited to exchanging for commodities and discount, which does not fully satisfy a variety of customer requirements.

Another disclosure ("A Method of and an Apparatus for Automatically Issuing Service Coupons" of Japanese Unexamined Patent Publication (Kokai) No. 4-264996) employs an identification card for a customer, adds up service points, issues a service coupon from an automatic coupon dispenser according to the service points, reads the coupon with a POS terminal, and deducts the amount of the coupon from the purchase. According to this technique, a customer must always carry the identification card with him or her when purchasing commodities and keep the card and exchanged service coupons. This is troublesome for customers. On the other hand, a store must once change service points into service coupons and read the service coupons through POS terminals, to provide a service. Namely, the store must increase manpower to provide the service. The service is limited to discounting so that it insufficiently satisfies a variety of customer needs.

Another method converts the amount of a purchase into points, stores cumulative points in a recording medium such as a magnetic card carried by a customer, and updates the stored data whenever the customer purchases commodities or receives service. This method has the following problems.

- (1) The customer must carry the recording medium whenever purchasing commodities.
- (2) It is impossible for the customer to confirm cumulative points before purchasing commodities.
- (3) If the recording medium is lost or destroyed, the cumulative points will be lost, and it is

virtually impossible to restore the data.

(4) Ways of accumulating points and providing service are fixed, and it is difficult to flexibly change points and services.

(5) Service information will be given to customers only in pamphlets and direct mail. It is impossible to provide customers with service information according to their needs.

Customers have a variety of needs not only exchanging points for commodities or money. Retail transactions involve not only sales at stores but also mail-order sales through telephones and personal computers. It is required to provide the same service for these different transactions.

Stores require a point management system that not only issues service points to attract customers but also supports sales promotion services that let customers enjoy shopping with no inconvenience.

SUMMARY OF THE INVENTION

In light of the above problems, the present invention is devised to solve them.

An object of the present invention is to provide a system that is capable of issuing and accumulating points with a seller's computer even if customers have no recording media or member cards and informing the customers of points whenever they request them.

Another object of the present invention is to easily set point-giving methods for various purchase conditions to improve sales.

Still another object of the present invention is to flexibly provide service information according to customers' cumulative points, to promote sales.

Still another object of the present invention is to provide a point management system that is capable of handling individual and group customers as well as mail-order sales.

In accordance with the present invention, there is

provided a service point management system for sales promotion services in retail sales employing a computer for managing points issued to each customer who receives service according to the points, comprising: point issue means for issuing points to the customer according to transactions performed by the customer; point accumulation means for calculating and accumulating the issued points; point notification means for notifying the customer of point information; and customer identification means for identifying the customer according to customer identification data entered through a customer or store terminal, the point notification means notifying the customer identified by the customer identification means of the customer's cumulative point information in advance of the sales transaction.

The service point management system according to the present invention identifies a customer who purchases commodities by visiting a store or through a mail-order system, according to an ID signal of the customer entered into the processor through the customer or store terminal connected to the processor through public circuits. The point management system notifies and issues points to the customer, adds up points, and provides service to the customer without salesclerks directly contacting the customer. The system allows the point calculation rate to be changed anytime. The system is capable of providing service for various transaction forms such as mail-order sales using telephones and personal computers without increasing the load on a seller.

Each customer is notified of cumulative points, the target points (that is, points for receiving predetermined services according to the offered points from the stores, for example, offered points in exchange for a premium, a gift certificate, and a theater thicket or points for receiving services of music, film software or the like) of required service, and a shortage of points with respect to the target points, through the

customer or store terminal or a video cart (that is, a kind of shopping cart equipped with a CRT or liquid crystal display) that receives the point and service data transmitted in the store, in a first stage of terminal operation or before purchasing commodities. Accordingly, this system improves customer's interest in the point service system and attracts the customers by notifying the customers of commodity points to be selected by the customers.

10 BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a block diagram showing a service point management system according to the present invention;

Fig. 2 is a block diagram showing the overall system of an embodiment according to the present invention;

15 Fig. 3 is a flowchart of the operation of a customer terminal;

Fig. 4 is a flowchart of the operation of the customer terminal which is connected to a mark A in Fig. 3;

20 Fig. 5 is a flowchart of the operation of the customer terminal which is connected to a mark D in Fig. 4;

Fig. 6 is a flowchart of the operation of a store terminal;

25 Fig. 7 is a combination of Figs. 7(A) and 7(B). Fig. 7(A) is a flowchart of the management of service points for specific groups and Fig. 7(B) is an example of the display on a screen based on an operational procedure of Fig. 7(A);

30 Fig. 8 is a combination of Figs. 8(A) and 8(B). Figs. 8(A) and 8(B) are schematic block diagrams showing the overall structure of a service point issue means;

Fig. 9 is a combination of Figs. 9(A) to 9(J). Figs. 9(A) to 9(J) are examples of the display on a screen for setting a point calculation rate at a manager terminal;

35 Fig. 10 is a combination of Figs. 10(A) and 10(B).

Figs. 10(A) and 10(B) are explanatory views of a process for issuing points according to specified days of a store as a purchase condition;

5 Fig. 11 is a combination of Figs. 11(A) and 11(B). Figs. 11(A) and 11(B) are views explaining a process of issuing points according to a specified period of a store as a purchase condition;

10 Fig. 12 is a combination of Figs. 12(A) and 12(B). Figs. 12(A) and 12(B) are views explaining a process of issuing points according to a specified area as a purchase condition;

15 Fig. 13 is a combination of Figs. 13(A) and 13(B). Figs. 13(A) and 13(B) are views explaining a process of issuing points according to specific days of a customer such as a birthday or a wedding anniversary as a purchase condition;

20 Fig. 14 is a combination of Figs. 14(A) and 14(B). Figs. 14(A) and 14(B) are views explaining a process of issuing points according to a specific time period such as issuing points only in the morning as a purchase condition;

25 Fig. 15 is a combination of Figs. 15(A) and 15(B). Figs. 15(A) and 15(B) are views explaining a process of issuing points according to specific commodities as a purchase condition;

30 Fig. 16 is a combination of Figs. 16(A) and 16(B). Figs. 16(A) and 16(B) are views explaining a process of issuing points according to the number of purchase transactions as a purchase condition;

Fig. 17 is a combination of Figs. 17(A) and 17(B). Figs. 17(A) and 17(B) are views explaining a process of issuing points according to the number of accesses as a purchase condition;

35 Fig. 18 is a combination of Figs. 18(A) and 18(B). Figs. 18(A) and 18(B) are views explaining a process of issuing points according to purchase amount as a purchase condition;

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Fig. 19 is a combination of Figs. 19(A) and 19(B).
Figs. 19(A) and 19(B) are views explaining a process of
issuing points according to customer rank as a purchase
condition;

5 Fig. 20 is a view explaining a process of issuing
points involving random functions;

Fig. 21 is a combination of Figs. 21(A) and 21(B).
Figs. 21(A) and 21(B) are views explaining a process of
updating cumulative points carried out by point
10 accumulation means;

Fig. 22 is a combination of Figs. 22(A) and 22(B).
Figs. 22(A) and 22(B) are views explaining a process of
collectively accumulating points for a specific group
carried out by the point accumulation means;

15 Fig. 23 is a perspective view showing an appearance
of a store terminal;

Fig. 24 is a combination of Figs. 24(A) and 24(B).
Figs. 24(A) and 24(B) are views showing a display image
of processed data on a display installed at a terminal;

20 Fig. 25 is a combination of Figs. 25(A) and 25(B).
Figs. 25(A) and 25(B) are views showing an example of a
personal computer communication terminal serving as a
customer terminal;

25 Fig. 26 is a combination of Figs. 26(A) and 26(B).
Figs. 26(A) and 26(B) are views showing an example of
informing a customer of a target object through personal
computer communication;

30 Fig. 27 is a combination of Figs. 27(A) and 27(B).
Figs. 27(A) and 27(B) are views showing another example
of informing a customer of a target object through
personal computer communication;

35 Fig. 28 is a combination of Figs. 28(A) and 28(B).
Figs. 28(A) and 28(B) are views showing still another
example of informing a customer of a target object
through personal computer communication;

Fig. 29 is a combination of Figs. 29(A) and 29(B).
Figs. 29(A) and 29(B) are views showing an example of a

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service for informing a customer of service point data by voice through a telephone line;

Fig. 30 is a combination of Figs. 30(A) to 30(D).

5 Figs. 30(A) to 30(D) are views showing examples of displaying cumulative points and the degree of attainment of a target on a personal computer serving as a customer terminal; and

Fig. 31 is a view showing an example of software information received at a customer terminal.

10 PREFERRED EMBODIMENTS OF THE INVENTION

An embodiment of the present invention will now be explained in detail with reference to drawings.

In Fig. 1, numeral 1 is a processor having a CPU and memories. The processor 1 is installed in a store, the
15 center of a group of stores, or a VAN center. Numeral 2 is data input means, 3 is a customer or store terminal, 4 is customer identification means, 5 is a point notification means, 6 is a service contents storage means, 7 is a point accumulation means, 8 is a condition
20 monitor means, 9 is a point issue means, and 10 is a rate management means. The data input means 2 may be incorporated in the processor 1 and installed in a store, or according to this embodiment, provided for the customer or store terminal 3 connected to the processor 1
25 through public communication circuits.

The following explanations are based on the data input means 2 being provided for the customer or store
terminal 3 connected to the processor 1 through
communication circuits. Part of the functions of the
30 processor 1 may be carried out by the terminal 3.

The customer identification means 4 identifies a customer according to customer identification data such as a customer ID number entered through the customer or store terminal 3.

35 The point notification means 5 transmits the cumulative point information of the customer identified by the customer identification means 4 to the customer

before a transaction to be performed by the customer, and reads service data out of the service contents storage means 6, which stores a list of services and corresponding points, within a range selected by the customer through the customer terminal. The read data is transmitted to the terminal 3.

The point accumulation means 7 accumulates points issued by the point issue means 9. The condition monitor means 8 changes the points according to predetermined conditions. The change is transmitted as point information to the point notification means 5.

The point issue means 9 employs the rate management means 10 that changes the point calculation rate according to transactions and stores the rate. The point issue means 9 calculates points according to the rate and transmits the calculated points to the point accumulation means 7 for the customer identified by the customer identification means 4.

Figure 2 explains the whole system according to the embodiment of the present invention.

In Fig. 2, a customer terminal 30a including a multimedia terminal 31a (that is, information display terminal which is regarded generally as a personal computer that can process image information, speech information or the like), a memory 32a, and a modem 33a. The customer terminal 30a is connected to the processor 1 through a communication circuit 24 and a communication controller 26. The processor 1 has the customer identification means 4, point notification means 5, point accumulation means 7, point issue means 9, and reference data bases 12 including a customer data base, etc. Another customer terminal 30b has a multimedia terminal 31b, a memory 32b, and a modem 33b. The customer terminal may be comprised of a personal computer communication terminal or a television/telephone set.

The processor 1 may be installed in a store, or in a computer or business center in the case of a large-scale

retailer having many stores. One or a plurality of store terminals for customers who visit a store are connected to the processor 1. When a customer ID signal or number is entered through the store terminal 35 or customer terminal 30a or 30b as indicated with (1) in Fig. 2, the customer identification means 4 of the processor 1 identifies the customer. If there is point information such as cumulative points for the customer, the point notification means 5 provides the point information as indicated with (2) in Fig. 2. When purchase data is entered, the point issue means 9 provides point information to the point accumulation means 7. The point accumulation means 7 accumulates and updates points and transfers the updated point information to the point notification means 5. The point notification means 5 notifies the point information to the store terminal 35 or the customer terminal 30a or 30b, which displays the point information.

The processor 1 provides each of the customer terminals 30a and 30b with functions of on-line purchase, target guidance for explaining kinds of services which can be received such as a gift, theater tickets or the like in exchange for offered points, point issuance, point inquiry, etc., for mail-order sales. For purchases carried out by customers visiting a store, each of the store terminals 35 has functions of target guidance, point issuance, point inquiry, etc. The processor 1 and customer terminals 30a and 30b are connected to a host computer 27 installed in a bank or a credit company through the public communication circuit 24 and a communication controller 26'. The host computer 27 stores customer account data in a memory 28, to carry out transactions such as money transfer, balance notification, balance inquiry, and withdrawal. Namely, purchase transactions carried out at the stores or through the mail-order system can be settled on line.

Figures 3, 4, and 5 show the operations of the

customer terminal. The operations will be explained with reference to the figures.

In step S1, a customer ID number is entered through the customer terminal.

5 In step S2, the customer terminal is connected to the processor 1 installed in the business center through the circuit, and the customer ID number is transmitted to the processor 1.

10 Step S3 determines according to a response from the center whether or not the entered ID number is registered. If it is registered, step S6 is carried out, and if it is not, step S4 is carried out.

15 In the step S4, information to instruct whether or not the customer is to be registered is entered. If registration is requested, step S5 is carried out, and if not, the flow ends.

Step S5 carries out the customer registration, and the flow returns to the step S2.

20 In step S6, the customer enters an instruction according to a menu. If there is a request to start a purchase, step S7 is carried out, and if not, step S16 is carried out.

25 The step S7 displays the present cumulative points of the customer. As and when requested, the number of purchase transactions, the number of accesses (that is, the number of times the customer utilizes a terminal to refer to information), and target points (that is, required number of points for which the customer can receive predetermined services) of the customer are
30 displayed.

Step S8 displays point service information including special days of the store (that is, specified days when an event is held in a store, such as a special sale, a Christmas bargain sale or the like), special days for the
35 customer (that is, special days for the particular customer, such as a birthday, a wedding anniversary or the like), service hours, service periods, service areas,

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etc.

Step S9 displays a menu of commodities including special commodities, sales promotion commodities, etc.

5 In step S10, the customer specifies a type of commodities on the menu.

Step S11 displays commodities according to the specified type. For example, the views, functions, manufacturer names, prices, points, and point rates of the commodities are displayed.

10 In step S12, the customer selects and enters a required commodity.

In step S13, the customer enters a bank name, an account number, and a method of payment such as lump sum or installment plan.

15 In step S14, the customer enters a method of delivering the commodity.

Step S15 displays updated cumulative points of the customer according to the purchase of the commodity.

20 In step S16, the customer enters an instruction to start or not to start a point service process. If the process is to be started, step S17 is carried out, and if not, step S22 is carried out.

Step S17 displays a guide to the point service.

25 Step S18 displays branches of the point service including retrieval with indexes and services to be provided for points approximately equal to the customer's cumulative points.

In step S19, the customer selects one branch of the point service.

30 In step S20, the customer determines the contents of the service to receive.

Step S21 carries out procedures according to the selected service such as commodities, tickets, retrieval service (a retrieval from a data base such as a press story, a directory of names, wanted columns or the like),
35 or software service (which offer music software, a video software or the like at the customer terminal through a

communication line).

Step S22 determines if the selected service is the software service. If it is YES, step S23 is carried out, and if it is NO, step S27 is carried out.

5 Step S23 asks the customer whether or not the software service must be given now. If the answer is YES, step S24 is carried out, and if NO, step S27 is carried out.

10 The step S24 displays the customer's present points and starts the software service involving video software information, PCM music information, game software information, etc.

Step S25 ends the software service.

Step S26 displays updated points.

15 In step S27, the customer enters an instruction. If the customer instructs the purchase of another commodity, the flow returns to the step S7, and if not, step S28 is carried out.

20 In the step S28, the customer instructs whether or not the point service is to be continued. If it is to be continued, the flow returns to the step S17, and if not, the flow ends.

25 Figure 6 shows the operations of the store terminal 35. The operations of the store terminal 35 will be explained next.

In step S40, a customer ID number is entered.

In step S41, the store terminal is connected to the processor 1 installed in the store or business center.

30 According to a response from the center, step S42 determines whether or not the entered ID number is registered. If it is registered, the flow goes to step S45, and if not, step S43.

35 In the step S43, it is determined whether or not it is requested to newly register the customer. If the registration is requested, the flow goes to step S44, and if not, ends.

The step S44 registers the customer and returns to

the step S41.

Step S45 determines according to an instruction whether or not point service is to be started. If the point service is to be started, the flow goes to step S46, and if not, ends.

Step S46 displays the present cumulative points of the customer.

Step S47 displays classified point services including a retrieval service with indexes and services to be provided for points around the cumulative points.

In step S48, an instruction to start one of the point services requested by the customer is entered.

In step S49, an instruction to determine the service to be provided is entered.

Step S50 carries out a procedure for providing the requested service such as commodities and tickets.

Step S51 displays the points of the customer updated after the presentation of the service.

In step S52, an instruction to continue or not to continue the point service is entered. If it is to be continued, the flow returns to the step S46, and if not, ends.

Figure 7(A) shows a flowchart of the operations of the customer terminal 30 and store terminal 35, for managing points for a specific group. Figure 7(B) shows an example of a display screen for specifying a group.

In step S60 of Fig. 7(A), a customer ID number is entered.

In step S61, the terminal is connected to the processor 1 installed in the store or business center through a circuit.

Step S62 determines whether or not the entered ID number is already registered. If it is registered, the flow goes to step S65, and if not, step S63.

In step S63, it is determined whether or not it is requested to newly register the customer. If it is requested, the flow goes to step S64, and if not, ends.

In the step S64, the customer is registered, and the flow returns to the step S61.

Step S65 displays the present cumulative points of the customer.

5 Step S66 displays the names of groups, target commodities requested by the groups or organized parties (that is, target articles such as, for example, a monocycle or foodstuffs, that are required by pre-registered public schools or volunteer groups for social
10 welfare activities; for example, when the Somalia Aid Association has accumulated one thousand points, foodstuffs are presented to the Somalia Government), target points which are necessary to obtain the required commodities for the groups, and present cumulative
15 points, as shown in Fig. 7(B). In this step, one of the registered groups is specified. If no group is specified, the flow goes to step S67, and if not, ends.

The step S67 adds the customer's points to those of the group specified in the step S66, and the flow ends.

20 In Fig. 7(B), the processor displays the names of the registered groups, target commodities requested by the groups, the target points of the commodities, and the present cumulative points. When the store terminal is in a standby state, these data may be always displayed.
25 Alternatively, they may be displayed after a customer is confirmed to belong to one of the registered groups according to operations on the terminal or to received purchase information.

30 Functions of managing customers and their points and providing services to the customers and means for realizing the functions will be explained individually.

1. A function of managing points

Managing points includes the issuance, accumulation, and notification of points.

35 1.1. A function of issuing points

Figures 8(A) and 8(B) generally are schematic block diagrams showing the overall structure of service

point issue means. In the figure, the processor 1 is a host computer, a store computer, or a POS register. The processor 1 has a purchase condition table 14 in which purchase conditions are optionally set at any time through a manager terminal 11. The purchase conditions are related to point calculation rates and point earning commodities. When purchase data is entered into the store terminal 35 or customer terminal 30, the data is processed and extracted according to a purchase data log 13 stored beforehand, to form purchase data 15 of a predetermined format. The purchase data 15 includes a terminal ID, purchase date, purchase time, a customer ID, commodity codes, quantities, amounts of money, total quantity, and total amount of money. According to the purchase data 15, purchase condition table 14, and reference data bases 12, it is determined whether or not the purchase at this time satisfies the conditions stated in the purchase condition table 14. If the conditions are satisfied, points for the purchase are calculated and transferred to the point accumulation means 7.

Figures 9(A) to 9(J) show examples of display screens used to set a point calculation rate with the rate management means 10 and manager terminal 11. Before explaining the processes of the point issue means 9, items appearing in these screens will be explained.

To set the point calculation rate according to specific days, the screen of Fig. 9(A) is used. Objective dates or days, or a period are entered according to the screen. The point calculation rate is also entered. Total amount of money or points is selected as a point calculation base.

To set the point calculation rate according to a specific period, the screen of Fig. 9(B) is used. The dates of an objective period are entered according to the screen. At the same time, a point calculation base is selected, and a minimum and points for the minimum are entered.

To set the point calculation rate according to a specific area, the screen of Fig. 9(C) is used. An area code of an objective area is entered according to the screen, a point calculation base is selected, and the point calculation rate is entered.

To set the point calculation rate according to a customer's special day, the screen of Fig. 9(D) is used. A customer's special day is selected in the screen, a point calculation base is selected, and the point calculation rate is entered.

To set the point calculation rate according to a specific time band, the screen of Fig. 9(E) is used. An objective time band is entered in the screen, a point calculation base is selected, and the point calculation rate is entered.

To set the point calculation rate according to specific commodities, the screen of Fig. 9(F) is used. The codes, names, and point calculation rates of one or a plurality of objective commodities are entered according to the screen.

To set the point calculation rate according to the number of purchase transactions, the screen of Fig. 9(G) is used. Different point calculation rates for ranks of purchase transactions are entered according to the screen.

To set the point calculation rate according to the number of accesses, the screen of Fig. 9(H) is used. Point calculation rates for ranks of accesses are entered according to the screen.

To set the point calculation rate according to amounts of payment, the screen of Fig. 9(I) is used. Point calculation rates for respective ranks of purchase amounts are entered according to the screen.

To set the point calculation rate according to ranks of customers, the screen of Fig. 9(J) is used. Point calculation rates for respective ranks of customers are entered according to the screen as follows:

1.1.1. A function of calculating points for purchase according to specific conditions

1.1.1.1. A function of calculating points for purchases carried out on a store's specific days

5 A store issues points on purchases made on specific days and dates determined by the store including weekdays and holidays. Collective purchase transactions over a short period or in a limited area are also in this category. This technique promotes sales on special
10 bargain days, etc., and increases the quantity of each purchase. This technique is effective to carry out on the opening day of a store or when entering into a new market area.

Figures 10(A) and 10(B) are views explaining a process of issuing points on the store's specific days.

15 In the figures, the purchase condition table 14 contains the purchase conditions set according to the screen of Fig. 9(A) for the specific days. The store terminal 35 or customer terminal 30 provides purchase
20 data, which are processed and extracted to form purchase data 15 of a predetermined format. Purchase data from the purchase data 15 is collated with the purchase conditions in the table 14. If the conditions are
25 satisfied, points for the purchase at this time are calculated and transferred to the point accumulation means 7. In the example of Fig. 10(A), the purchase date is December 1, 1992. Since this date satisfies the
purchase conditions, points are calculated as: point
calculation rate 2% \times total purchase amount Yen 3,000 =
30 60 points.

Figures 11(A) and 11(B) are views explaining a process of issuing points for a store's specific period.

35 In the figures, the purchase condition table 14 contains the purchase conditions set according to the screen of Fig. 9(B) for the specific period. The store terminal 35 or customer terminal 30 provides purchase data, which is processed and extracted to form purchase

data 15 of a predetermined format. Purchase dates and purchase amounts within the period are collated with the purchase conditions in the table 14. If the conditions are met, points for the purchase of this time are calculated and transferred to the point accumulation means 7. In the example of Fig. 11, total purchase amount is Yen 33,000 in the period of February 1, 1993 to March 1, 1993. Since the amount in this period meets the purchase conditions, fixed points are given for the purchase of this time.

Figures 12(A) and 12(B) are views explaining a process of issuing points for purchases made in a specific area.

In the figures, the purchase condition table 14 contains the purchase conditions set according to the screen of Fig. 9(C) for the specific area. The store terminal 35 or customer terminal 30 provides purchase data, which are processed and extracted to form purchase data 15 of predetermined format. With a terminal ID held in the purchase data 15 serving as a key, an area code is retrieved and extracted out of a terminal data base 12a and collated with the purchase conditions in the table 14. If the conditions are met, points for the purchase of this time are calculated and transferred to the point accumulation means 7. In the example of Fig. 14, the area code retrieved from the terminal data base 12a is 1234, which satisfies the purchase conditions. Accordingly, points are calculated as: point calculation rate 3% x total purchase amount Yen 33,000 = 99 points.

1.1.1.2. A function of calculating points for purchases performed on customer's specific days

Customer's specific days may be used as conditions to change the point calculation rate. A store sets specific days for each customer according to customer's data. For example, a customer's visit to the store on the birthday or wedding anniversary of the customer may be used as conditions to change the point

calculation rate for the customer. This is customer-oriented sales promotion.

Figures 13(A) and 13(B) are views explaining a process of issuing points according to the customer's specific days such as a birthday or a wedding anniversary.

In the figures, the purchase condition table 14 contains the purchase conditions set according to the screen of Fig. 9(D) for the customer's specific days. The store terminal 35 or customer terminal 30 provides purchase data, which is processed and extracted to form purchase data 15 of predetermined format. With a customer ID stored in the purchase data 15 serving as a key, the birthday of the customer is retrieved from a customer database 12b and is collated with the purchase conditions in the table 14. If the conditions are met, points for the purchase at this time are calculated and transferred to the point accumulation means 7. In the example of Figs. 13(A) and 13(B), the date of purchase of December 1, 1992 is equal to the birthday of the customer retrieved from the customer database 12b. Namely, the purchase conditions are met, so that points are calculated as: point calculation rate 3% x total purchase amount Yen 33,000 = 99 points.

1.1.1.3. A function of calculating points for purchase performed in a specific time period

A store may specifically set a time period for which the point calculation rate is changed. For example, purchase performed in a specific time period such as in the morning or a service time period is provided with a high point calculation rate. The point calculation rate may be increased area by area in different time bands. This may attract customers during off-hours of stores and average accesses to customer terminals.

Figures 14(A) and 14(B) are views explaining a process of issuing points according to the specific time

period.

In the figure, the purchase condition table 14 contains the purchase conditions set according to the screen of Fig. 9(E) for the specific time band. The store terminal 35 or customer terminal 30 provides purchase data, which is processed and extracted to form purchase data 15 of a predetermined format. Purchase time stored in the purchase data 15 is collated with the purchase conditions held in the table 14. If the conditions are met, points for the purchase of this time are calculated and transferred to the point accumulation means 7. In the example of Figs. 14(A) and 14(B), the purchase time is 10:30 in the morning, which satisfies the purchase conditions. Accordingly, points for the purchase are calculated as: point calculation rate 3% × total purchase amount Yen 33,000 = 99 points.

1.1.1.4. A function of calculating points for purchase of specific commodities

Purchase of specific commodities may be a condition of changing the point calculation rate. The specific commodities may be changed daily. Sales promotion commodities may have a high point calculation rate. A specific series of commodities may also have a high point calculation rate. This will result in promoting the sales of focused commodities.

Figures 15(A) and 15(B) are views explaining a process of issuing points for the specific commodities.

In the figures, the purchase condition table 14 contains the purchase conditions set according to the screen of Fig. 9(F) for the specific commodities. The store terminal 35 or customer terminal 30 provides purchase data, which is processed and extracted to form purchase data 15 of a predetermined format. One or a plurality of commodity codes in the purchase data 15 are collated with the purchase conditions stored in the table 14. If the conditions are met, points for the purchase at this time are calculated and transferred to the point

accumulation means 7. In the example of Figs. 15(A) and 15(B), a commodity code is 1235, which satisfies the purchase conditions, so that points for the purchase is calculated as: point calculation rate 3% x amount of purchase Yen 6,000 = 18 points.

1.1.2. A function of determining purchase transactions

1.1.2.1. A function of calculating the number of purchase transactions

The host computer or POS register counts the number of purchase transactions of each customer. According to the number, the point calculation rate is changed. Namely, the point calculation rate is increased when the predetermined number of purchase is attained, or when the customer continuously carries out purchases. This results in promoting customers to repeatedly carry out purchases.

Figures 16(A) and 16(B) are views explaining a process of issuing points according to the number of purchase transactions.

In the figures, the purchase condition table 14 contains the purchase conditions set according to the screen of Fig. 9(G) for the number of purchase transactions. The store terminal 35 or customer terminal 30 provides purchase data, which is processed and extracted to form purchase data 15 of a predetermined format. With a customer ID in the purchase data 15 serving as a key, the cumulative number of purchase transactions of the customer is retrieved out of the customer database 12b, and the cumulative number is incremented by 1. The incremented number is collated with the purchase conditions stored in the purchase condition table 14. If the conditions are met, points for the purchase of this time are calculated and transferred to the point accumulation means 7. For example, 30 is retrieved as the number of purchase transactions from the customer data base 12b and is

updated to 31. Since the point calculation rate for the updated number is 2%, points for the purchase of this time are calculated as: rate of point 2% x total purchase amount Yen 33,000 = 66 points.

- 5 1.1.2.2. A function of determining access conditions

Points may be issued according to access conditions. For example, the number of accesses is counted, and at every several accesses, the point calculation rate is increased step by step. The point calculation rate may be changed if the accesses are carried out in a specific area. The point calculation rate may be increased for accesses during off-hours of communication circuits. In this way, the point calculation rate is changed depending on an access time band. This results in increasing the number of accesses to customer terminals, to thereby increase access charges and sales.

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Figures 17(A) and 17(B) are views explaining a process of issuing points according to the number of accesses.

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In the figures, the purchase condition table 14 contains the purchase conditions set according to the screen of Fig. 9(H) for the number of accesses. The store terminal 35 or customer terminal 30 provides purchase data, which is processed and extracted to form purchase data 15 of predetermined format. A customer ID in the purchase data 15 serving as a key, the number of accesses of the customer is retrieved from the customer database 12b and is incremented by one. The incremented number is collated with the purchase conditions in the table 14. If the conditions are satisfied, points for the purchase of this time are calculated and transferred to the point accumulation means 7. If the number of accesses retrieved from the customer database 12b is 230, the number is updated to 231. Since the point calculation rate for the access number of 231 is 2%,

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points are calculated as: point calculation rate 2% × total purchase amount Yen 33,000 = 66 points.

1.1.2.3. A function of counting the number of visits to a store

The host computer or POS register counts the number of visits of a customer to a store, and according to the number, points are issued. Namely, the point calculation rate is changed according to the number of visits to the store or continued purchases. This may promote customers to repeatedly purchase commodities at the store.

1.1.3. A function of setting customer ranks

The point calculation rate may be determined according to customer ranks. Namely, customers are classified into ranks according to their amounts of purchase, the numbers of purchase transactions, the numbers of accesses, the numbers of visits to stores, job types, and addresses (giving priority to local customers). The point calculation rate is changed according to the ranks. This may have an effect of developing good customers.

Figures 18(A) and 18(B) are views explaining a process of issuing points according to the amount of purchase.

In the figures, the purchase condition table 14 contains the purchase conditions set according to the screen of Fig. 9(I) for the amounts of purchases. The store terminal 35 or customer terminal 30 provides purchase data 15 of a predetermined format. The total purchase amount in the purchase data 15 is collated with the purchase conditions in the table 14. If the conditions are met, points for the purchase at this time are calculated and transferred to the point accumulation means 7. In the example of Fig. 18, the total price is Yen 33,000 and the point calculation rate for the price is 2%, so that the points are calculated as: point calculation rate 2% × total price Yen 33,000 = 66 points.

Figures 19(A) and 19(B) are views explaining a process of issuing points according to customer rank.

In the figures, the purchase condition table 14 contains the purchase conditions set according to the screen of Fig. 9(J) for the customer ranks. The store terminal 35 or customer terminal 30 provides purchase data, which is processed and extracted to form purchase data 15 of a predetermined format. With a customer ID in the purchase data 15 serving as a key, a customer rank is retrieved out of the customer database 12b. The customer rank is collated with the purchase condition table 14. If the conditions are met, points for the purchase at this time are calculated and transferred to the point accumulation means 7. In the example of Figs. 19(A) and 19(B), a customer rank of A is retrieved from the customer database 12b. Since the point calculation rate for the customer rank of A is 2%, the points are calculated as: point calculation rate 2% \times Yen 33,000 = 66 points.

1.1.4. A function of adding a degree of chance

Points are issued to customers according to chance. Points of commodities are not disclosed to each customer before issuance. The customer receives points like a game. For this purpose, points for commodities and point calculation rates are provided at random according to terminal operations. Game software may be played on a customer terminal, and according to a result of the play, points or a point calculation rate is determined and issued to the customer. For example, a 10,000th customer to a store may be provided with bonus points. This makes purchase transactions like entertainment, to promote customers' purchase interest.

Figure 20 is a view explaining a process of issuing points according to chance. The customer terminal 30 or store terminal 35 employs the amount of purchase, a transaction number, the date or time of purchase, or a number entered by a customer through a

keyboard or a pin pad 3-1 as an input parameter in the process of registering purchased commodities, to calculate points or a point calculation rate at random in a predetermined range during the process of providing points or the process of providing a point calculation rate. The processor 1 receives the points or the point calculation rate determined at random by the customer terminal 30 or store terminal 35 together with the purchase data, calculates points for this purchase by adding the random points or the point calculation rate to a result of collation with the purchase condition table 14, and transfers the result of the addition to the point accumulation means 7.

1.2. A function of accumulating points

The function of accumulating points includes a function of storing cumulative points, a function of calculating points, a function of determining an accumulation unit, and a function of converting the cumulative points.

1.2.1. A function of storing cumulative points

Cumulative points are stored in the host computer, POS register, or customer terminal.

1.2.2. A function of calculating points

1.2.2.1. A function of adding points

Points are added in the host computer and POS register. Terminals with a bar-code scanner installed in a store and readers attached to store carts may calculate commodity prices and points.

1.2.2.2. A function of referring to conditions

Cumulative points of each customer are periodically monitored. Interest points are added according to the cumulative points. The cumulative points are decreased according to a non-purchase period. These techniques motivate customers to make continuous purchases.

Figures 21(A) and 21(B) are views explaining a process of updating cumulative points.

In the figure, the point accumulation means 7 adds points for purchase of this time performed by a customer issued by the point issue means 9 to the cumulative points of the customer stored in the customer database 12b and updates the latest purchase data. The condition monitor means 8 refers to a cumulative point update condition table 16 prepared in advance, to periodically monitor purchase transactions of the customer and calculate and update the cumulative points of the customer. The periodical cumulative point updating process of the condition monitor means 8 is carried out monthly, every six months, or yearly.

In the example of Figs. 21(A) and 21(B), it is supposed that the date for carrying out the periodical cumulative point updating process is December 1, 1992. A customer with a customer ID of 111111 has the latest purchase date of August 10, 1991. Namely, this customer has purchased nothing during the prior six months. Accordingly, the cumulative points of this customer are decreased by 10% according to the purchase conditions contained in the cumulative point updating condition table 16. Namely, the cumulative points are updated as: $500 - (500 \times 10\%) = 450$ points. Another customer with a customer ID of 122222 has the latest purchase date of December 20, 1992. Accordingly, this customer's cumulative points of 800 are increased by 2% according to the purchase conditions in the table 16. Namely, the cumulative points are updated as: $800 + (800 \times 2\%) = 816$ points. A customer with a customer ID of 122333 has the latest purchase date of October 20, 1992 and cumulative points of over 1000. Accordingly, the points are increased by 3% according to the purchase conditions in the table 16 and are updated as: $2000 + (2000 \times 3\%) = 2060$ points.

In this way, the condition monitor means 8 is periodically activated to collate each purchase date stored in the customer data base 12b with the cumulative

point update condition table 16. According to a result of the collation, the condition monitor means 8 adds interest points to cumulative points or reduces the cumulative points.

5 1.2.3. A function of determining an accumulation unit

Points are accumulated for each customer, each family, or a group. Points for a group of customers may be collectively accumulated. For example, customers
10 related to a school may collect specific coupons and exchange them for school equipment.

Figures 22(A) and 22(B) are views explaining a process of collectively accumulating points for a specific group.

15 In the figures, the point accumulation means 7 receives purchase data from the shop terminal 35, processes and extracts the received data, and forms purchase data 15 of predetermined format. With a customer ID in the purchase data 15 serving as a key, a
20 group ID to which the customer belongs is retrieved from the customer database 12b. If the group ID is retrieved, points for the purchase of this time are calculated according to the purchase condition table 14 and added to the cumulative points of the group stored in the group
25 customer database 12d. The result of the addition is displayed on the store terminal 35.

This function of collectively accumulating points for groups has the following advantages for customers and retailers. Since the accumulation process
30 is carried out in a retailer's system but not in a customer's system, the customers have no trouble accumulating points. For the retailers, the amount of purchase of customers belonging to any one of the groups will be improved. Since the retailers contribute to
35 campaigns performed by the groups, the retailers will be well-received and their images will improve.

For example, a cumulative point display

terminal installed in a store always displays the following campaign:

"Messrs. PTA at XX Elementary School

Box horse donation campaign, Oct. 1 to Nov. 30

5 Target: 4000 points Now: 3264 points To go: 736 points

This may promote sales for customers related to the group.

1.2.4. A function of converting cumulative points

10 As and when required by customers, customer's cumulative points may be moved from one store to another through a common center of the same group of stores. The customer's cumulative points may be converted into points of another group or store according to a predetermined
15 rate. This results in commonly using different kinds of point services and improving service for customers.

1.3. A function of notifying points

The notifying of points will be explained with reference to Fig. 1. In the figure, the point
20 notification means 5 transfers to the terminal 3 point information such as cumulative points, target points, a shortage of points accumulated by the point accumulation means 7, as well as service information stored in the service storage means 6. These data and information may
25 be notified not only through multimedia terminals, customer terminals, store terminals, bank terminals, videocart POS register terminals, and store terminals with a bar-code scanner but also through a telephone by
30 voice, facsimile, personal computer telecommunication displays, television/telephone sets, and bidirectional television sets. The data may be accessed through a specific channel of CATV that is always accessible, electronic catalogs (CD-ROMs), and IC cards. The data may be transmitted to customer terminals through
35 available public circuits.

Figure 23 shows an example of the store terminal 35.

In the figure, the store terminal 35 is provided with a display 35-1 and operation keys 35-2. The terminal 35 is connected to the processor 1 installed in a store or business center. The display 35-1 displays guides for operations to be carried out by a customer, point information, and service information. The terminal 35 is partly operated by a customer through the operation keys 35-2.

When a customer enters his or her ID into the terminal 35, the terminal 35 displays cumulative points of the customer and exchangeable commodities for the points. By specifying a commodity number, the terminal 35 may take place necessary procedure for mailing the commodity to the customer. In this way, the customer can confirm points and exchangeable commodities at once, and through a simple operation, can exchange the points for the commodities.

The same functions may be added to bank terminals such as cash dispensers. In this case, existing facilities are usable to reduce system costs, and the tie-up between banks and stores will reinforce service for customers.

Figure 24(A) shows an example of a display screen of the customer terminal or store terminal 35, and Fig. 24(B) shows an example of a display screen of a POS register.

In Fig. 24(A), the screen 35-1 of the store terminal 35 shows a customer ID, a customer name, cumulative points, etc. Operations such as selection of displayed items, confirmation, deletion, and termination are carried out through an up key 35-1a, a down key 35-1b, a procedure key 35-1c, an OK key 35-1d, a cancel key 35-1e, and an end key 35-1f that are operated by touching them with a finger or a mouse. If a required commodity is specified according to operation guides, the name, picture, and required points of the commodity, whether or not the commodity is exchangeable for the present points,

total points to be needed for the exchange, and points to be left after the exchange are displayed.

In Fig. 24(B), the customer display screen 35-3 of the POS register terminal has an amount of money display part 35-3a for displaying the amount of money a customer presented to a clerk for payment, a change display part 35-3b for displaying the amount of change to be returned to the customer, and a cumulative point display part 35-3c for displaying the present cumulative points of the customer.

Figures 25(A) and 25(B) are views showing an example of employing a personal computer as the customer terminal as well as personal computer communication.

In the figures, a customer obtains point information such as cumulative points and service data and carries out a necessary procedure such as exchanging the points for service through the customer terminal 30 and a host computer of a personal computer communication center. The processor 1 has the customer data base 12b that stores customer records 17. For each customer, the records 17 hold the type of the personal computer communication and a personal computer communication service ID. The processor 1 periodically transmits the customer records 17 to a database of the host computer 29 of the personal computer communication service center. When a customer connects its personal computer to the host computer 29 of the service center through a communication circuit, the host computer 29 recognizes the communication ID of the customer as a customer ID stored in a member management master data 12e as indicated with ① in Fig. 25, accesses point data stored in a customer database 12' as indicated with ② in Fig. 25, provides the customer with service information according to an exchangeable commodity list 12f, to ask the customer to confirm a commodity to be exchanged as indicated with ③ in Fig. 25, carries out the procedure of exchanging the commodity as indicated with ④ in Fig. 25,

and transmits updated data including a request of exchanging the points with the commodity to the processor 1. According to the updated data, the processor 1 updates the customer records 17 and takes necessary steps of sending the commodity according to the data transmitted to a requested commodity manager 18.

This method is advantageous for customers because they can freely access stores from their homes.

1.3.1. A function of guiding target points

Service contents may be electronically informed to customers through periodic electronic catalogs (CD-ROMs) and IC cards. The service contents may be retrieved on terminal displays as mentioned in 1.3. The service contents may be set to be always accessible through a channel of a CATV or personal computer communication. The service contents may be displayed on a bidirectional television display. The service contents may be target commodities as requested by customers. The service commodities may be retrieved with a keyword. Service commodity information may be transmitted to customers through communication circuits during off-hours.

The service contents may be presented to customers according to their cumulative points. Namely, the customers are timely informed of most required information. For this purpose, target commodities nearest to the cumulative points of each customer may be informed. Each customer may retrieve service contents obtainable with the present points of the customer. Sales promotion commodities may be frequently informed to the customers. The next information will be displayed with brighter colors.

Points assigned for commodities may be displayed on videocarts in a store. When the points of a customer reaches a specific value, a catalog may be mailed to the customer.

Figures 26(A), 26(B) to 28(A), 28(B) explain a

process of informing target commodities to a customer using personal computer communication.

Figures 26(A) and 26(B) are views showing an example of a customer employing personal computer communication to retrieve services obtainable in the range of points the customer has. The customer terminal 30 is connected to the processor 1 through a public circuit 24. According to operation guides displayed, the customer enters a customer ID, selects a required genre such as leisure or commodities, and obtains present cumulative points, points required for the guided services, and points left after receiving a required service. If necessary, the customer may proceed to receive service for the present cumulative points. The processor 1 receives the customer ID from the customer terminal 30, retrieves the cumulative points of the customer from the customer database 12a, transmits the cumulative points to the customer terminal 30, retrieves service information from service data 12g classified according to points with the cumulative points serving as a key, and sends the retrieved result to the customer terminal 30.

The customer can instantaneously confirm the cumulative points on the personal computer at home and check services available for the cumulative points.

Figures 27(A) and 27(B) are views showing an example of a customer retrieving a required object through personal computer communication. The customer selects a type that may include a target object. The customer terminal 30 is connected to the processor 1 in the same manner as Fig. 26. The customer enters his or her ID according to operation guides displayed. Then, cumulative points of the customer and a type menu are displayed. Once the customer selects a type, the processor 1 retrieves corresponding service information from classified service data 12h and transmits the retrieved information to the customer terminal 30. The

customer terminal 30 displays the contents of the service of the selected type, points required for the service, and points to obtain the selected service, i.e., a difference between the customer's cumulative points and the points for the required service.

Figures 28(A) and 28(B) are views showing an example of a customer employing personal computer communication to retrieve a required object. The object is specified by the customer on an entry screen, and the data of the object is informed to the customer by an expert system in the processor 1. The customer terminal 30 is connected to the processor 1 in the same manner as Figs. 26(A) and 26(B). According to displayed guides, the customer enters a customer ID and specifies an object using 50 characters or less. For example, if the customer prefers a two-day trip to Atami, the customer enters "two-day trip to Atami." According to the entered data, the expert system of the processor 1 retrieves a service database 12i, asks the customer for options such as meals, and informs the customer of points or a shortage of points for receiving the object.

Figures 29(A) and 29(B) are views showing an example of providing a customer with point information by voice through a telephone.

In the figures, the processor 1 periodically retrieves customers to whom count data must be informed out of the customer database 12b with notification dates in the customer records 17 being keys. According to the retrieved data, the processor 1 informs each customer of the point information and service guide messages by voice through the public communication circuit 24.

When a personal computer is employed as the customer terminal, the cumulative points of a customer may be displayed at the start of an access by the customer. In this case, the customer always sees the points and will be motivated to reach a number of target points. In Figs. 30(A) and 30(B), target points and

present points are plotted to visually show the attainment of the target points, to motivate the customer to get the target points.

Figure 30(A) is a column graph showing present cumulative points with target points being plotted on a scale. The column graph is always displayed during point information service and software service. Once the target service is provided to the customer, the cumulative points are decreased and the decreased state can be visually confirmed by the customer at once.

Figure 30(B) is a graph with a whole screen representing the target points of a selected object. An area corresponding to the present cumulative points of the customer is painted with a reverse color with respect to the 100% target area. A customer can grasp the present state of the points at a glance. As the area of the cumulative points increases relative to the target area, the customer may be motivated to attain the target.

Figure 30(C) shows an example of displaying a target object as an illustration. An area corresponding to present cumulative points is displayed with a reverse color with respect to a 100% accomplishment of the target. Figure 30(D) displays an illustration of a target step by step according to cumulative points. As the points reach the 100% accomplishment of the target, the shape of the target gradually becomes complete, so that the customer will be motivated to complete the shape.

When a target is switched from one to another in each of the displays 30(B) to 30(D), the display is instantaneously switched to show the degree of attainment of the new object.

Cumulative points may be presented to a customer through the customer terminal 30 by voice through a telephone, personal computer communication, a facsimile, a bidirectional television such as a television/telephone set, or a specific channel of a

CATV. Present cumulative points may be displayed on a first access screen, plotted on a graph together with target points, or stored in a memory of the customer terminal. During off-hours of communication circuits, the memory of the customer terminal is updated. The present points may be periodically displayed on a terminal display.

Cumulative points may be presented to a customer in a store. In this case, the points may be informed to the customer with a voice synthesizer of the store terminal 35. Commodity prices and points may be displayed on a videocart in the store. A display in the store may be employed to retrieve and display customer's present points. The cumulative points of specific groups may be displayed on the display in the store.

The cumulative points of each customer managed by the computer of the store may be mailed to the customer.

1.3.3. A function of informing a shortage of points

A shortage of points may be informed to a customer by voice through a telephone line and the customer terminal 30. The shortage may be informed to the customer through personal computer communication, a facsimile, a bidirectional television system such as a television/telephone system, or a specific channel of a CATV. The shortage may be displayed on a first screen after an access to the processor of the store. The shortage may be stored in a memory of the customer terminal. During off-hours of circuits, the memory of the customer terminal may be updated. The validity of points may be warned on a display of the customer.

The shortage may be presented to the customer in the store. In this case, the shortage may be informed to the customer with a voice synthesizer of the store terminal 35. A shortage of points with respect to target points may be retrieved on a display installed in the store.

2. A function of presenting service

A function of presenting a service may include functions of carrying out a service and confirming points.

5 2.1. A function of carrying out service

2.1.1. A function of presenting cash

Cumulative points may be converted into money, which is transferred to a customer's bank account.

10 Cumulative points may be used as part or all of communication charges.

2.1.2. A function of presenting commodities

A bouquet may be sent to celebrate a customer's special day. A birthday card may be sent to celebrate a customer's birthday. Service tickets may be issued to
15 some customers.

2.1.3. A function of providing information

Service (a premium) for a customer is usually given in commodities or tickets. This embodiment presents attractive software information such as video
20 movie software, PCM music software, and game software through communication circuits.

Information to be presented will be not only pay software information such as video software information and PCM music information but also
25 sightseeing information and various data base information.

Points may be converted into a time period for supplying software information or into the number of software information pieces, and the points will be
30 deducted before or after the presentation of the software. The points may be analogically deducted in proportion to an elapse of time while presenting the service. If the points are gradually deducted according to time for presenting service, present cumulative points
35 and reductions may be plotted on a graph or displayed as numerals at a customer terminal.

Figure 31 shows an example of a customer

receiving software information service at the customer terminal. The host processor stores and manages points of the customer. In the example, the points are also held and managed by the customer terminal. For this purpose, the customer terminal has a modem 50 for demodulating signals transmitted through a circuit, a display 51, a controller 52 for controlling the display, an input unit 53 such as a keyboard or a pin pad, and a processing unit 54. The processing unit 54 includes a point managing section 55 for managing the points of the customer, an I/O controller 56 for controlling inputs and outputs, an operation section 57 for calculating the points, and a memory 58 for storing the points.

The display 51 displays points required for receiving software information service and points presently kept by the customer. When receiving the software information service, the points are managed according to the number of software information pieces to receive or a time period for receiving the software information depending on the kind of the software information.

2.1.4. A function of presenting service

A sightseeing tour or medical counseling may be provided.

2.1.5. A function of presenting honor

Donators of points to public organizations will be displayed on store displays or public screens, to honor the donators. It is possible to automatically apply commendation for the donators to governmental organizations through communication circuits.

2.2. A function of confirming points

For achieving a function of monitoring points and a function of deducting points for which service has been provided, the processor 1 increases or decreases points and monitors the achievement of service. There is arranged means for providing a customer with point information when a customer ID and a password are

provided through the store terminal 35 or customer terminal 30.

3. A function of managing customers

3.1. A function of registering customers

5 Means for forming a customer managing data base and registering customer data to the data base is provided.

3.2. A function of deleting customers

10 Means for deleting registered customer data for customers who want no service or who have lost qualifications from the database is provided.

3.3. A function of identifying customers

15 The customer identification means 4 of the processor 1 identifies customers and object persons. They will be identified with passwords, IDs used for personal computer communication, handwriting, and names and addresses. The customers may be also identified according to their physical properties such as figures, fingerprints, voiceprints, and eye patterns.

20 The present invention is achievable in various forms as follows:

(1) There are arranged point issue means for issuing points according to transactions, point accumulation means for calculating and accumulating issued points, point notification means for notifying a customer of point information, customer identification means for identifying the customer according to customer identify data and ID number entered through a customer or store terminal. The point notification means notifies the customer identified by the customer identification means of the cumulative point information before transactions.

35 (2) The customer terminal notifies the customer of the customer's cumulative point information as primary data as soon as the customer terminal is turned ON.

(3) The store terminal notifies the customer

identified by the customer identification means of the customer's cumulative point information as primary data.

(4) According to the arrangement of the above (1), the point issue means changes the point calculation rate according to purchase conditions.

(5) The purchase conditions are set for a predetermined period.

(6) The purchase conditions are set for purchases performed in predetermined hours.

(7) The point issue means issues points according to a point calculation rate determined according to a time band.

(8) The purchase conditions are set for stores in a specific area.

(9) The purchase conditions are set for a specific counter in a store.

(10) The purchase conditions are set to increase the point calculation rate for sales promotion commodities.

(11) The purchase conditions are set to optionally change the point calculation rate depending on days.

(12) The purchase conditions are set to apply a high point calculation rate for customers who bought a specific series of commodities.

(13) The point issue means increases the point calculation rate if a predetermined number of purchase transactions is attained.

(14) The point issue means increases the point calculation rate if the number of purchase transactions reaches a predetermined number in a predetermined period.

(15) The point issue means sets the point calculation rate according to the number of accesses to customer terminals in a specific area.

(16) The point issue means optionally sets the point calculation rate according to a time band for accessing the customer terminals.

(17) The point issue means increases the point calculation rate for operations carried out at the customer terminal during off-hours of communication circuits.

5 (18) The point issue means issues points according to the point calculation rate set according to the number of visits of a customer to a store.

(19) According to the arrangement of the above
10 (1), the point notification means notifies the customer of the point information with images, voices, or both.

(20) The data from the point notification means is displayed on a display of a personal computer at the customer terminal through communication circuits.

15 (21) The data from the point notification means is displayed on a bidirectional television display through communication circuits.

(22) The point notification means displays a graph of cumulative points and target points.

20 (23) The point notification means displays the target points as the whole of a given screen area and the cumulative points as an area proportional to the target points area with a reverse color.

(24) The point notification means displays the target points of an object requested by a customer as an
25 area and the cumulative points as proportional part of the target points area with a reverse color.

(25) The point notification means sets an area for the target points of an object requested by a customer and displays part of the area in proportion to
30 the cumulative points.

(26) The point notification means has service contents storage means for storing a list of types of services and corresponding cumulative points, reads data out of the storage means according to a type selected by
35 a customer through the terminal, and notifies the customer of the read data.

(27) The point notification means has service

contents storage means for storing a list of services and corresponding cumulative points, selects a range of services available for the cumulative points of a customer, and notifies the customer of the selected services.

(28) The point notification means is installed in a store cart and notifies a customer of the customer's cumulative points in response to customer's operations.

(29) The point notification means is installed in a store videocart and displays customer's cumulative points.

(30) The point notification means is installed in a store videocart and displays customer's cumulative points together with point information of specific commodities transmitted in a specific area in a store.

(31) The point notification means is installed in a store cart and notifies a customer of cumulative points in voices.

(32) The point notification means includes a display installed in a store and displays specific customers' cumulative points if required.

(33) The point notification means includes a display installed in a store and always displays cumulative points of groups.

(34) According to the arrangement of the above (1), the point notification means notifies the customer of points through available communication circuits.

(35) The point notification means informs the customer of target points through available communication circuits.

(36) The point notification means informs the customer of cumulative points through available communication circuits.

(37) The point notification means uses available communication circuits to notify the customer of a shortage of points with respect to the target points.

(38) According to the arrangement of the above (1), the point accumulation means has condition monitor means for changing cumulative points according to predetermined conditions.

(39) The condition monitor means adds interest points to the points of a customer according to the customer's cumulative points and periods.

(40) The condition monitor means decreases the points of a customer if the customer carries out no transaction during a predetermined period.

(41) The point accumulation means has means for converting the points of a customer managed by a group of stores into points managed by another group of stores according to a predetermined rate if the customer requests the conversion.

(42) According to the arrangement of the above (1), the service is provided to the customer through communication circuits.

(43) The service is provided to the customer as image and voice data.

(44) The service is provided to the customer as image and voice data, and the point accumulation means decreases the customer's cumulative points according to a period of providing the service.

(45) The service is provided to the customer as image and voice data, and the point accumulation means ~~decreases~~ the customer's cumulative points according to a ~~period~~ of providing the service and displays the ~~decreased~~ result on the display of the customer terminal.

(46) According to the arrangement of the above (1), the point information is supplied to the customer through the customer terminal through a communication circuit.

(47) According to the arrangement of the above (1), the point information is supplied to the customer through the store terminal installed in a store.

(48) The point information in the above (46)

and (47) includes target points and corresponding electronic services.

(49) The point information in the above (46) and (47) includes services corresponding to the customer's cumulative points provided by the point accumulation means.

(50) The point information in the above (46) and (47) is the customer's cumulative points.

(51) The point information in the above (46) and (47) is a shortage of points with respect to target points registered or specified by the customer.

(52) The point information in the above (46) and (47) includes the validity of the customer's cumulative points.

(53) According to the arrangement of the above (1), the point issue means issues points to the customer without disclosing points assigned for commodities.

(54) The point issue means issues points for each transaction at random.

(55) The point issue means issues a point calculation rate for each transaction at random.

(56) The point issue means issues bonus points to the customer if the number of transactions carried out by the customer reaches a predetermined number.

(57) According to the arrangement of (1), the point accumulation means collectively accumulates points issued to customers if the customer identification means identifies that the customers belong to a group.

As explained above, the present invention is applicable not only for in-store purchase transactions but also for mail-order transactions performed through public circuits. The present invention is capable of notifying customers of point information and service data and providing the customers with services without directly contacting the customers. Unlike the prior art, the present invention sets a point calculation rate according to a variety of conditions and changing the

point calculation rate as and when required. The present invention flexibly handles transactions and customer needs without increasing manpower. When a customer accesses a customer terminal or a store terminal, the present invention displays the customer's cumulative points on the terminal as soon as the customer is identified. The present invention quickly displays points for a commodity before checkout, to motivate the customer to purchase the commodity. The customer can have point information such as its cumulative points and target points. This may improve customer's interest to the point service.

CLAIMS

1. A point management system employing a computer for managing points issued to each customer who receives service according to the points, comprising:

point issue means for issuing points to the customer according to transactions performed by the customer;

point accumulation means for calculating and accumulating the issued points;

point notification means for notifying the customer of point information; and

customer identification means for identifying the customer according to customer identification data entered through a customer or store terminal,

the point notification means for notifying the customer identified by the customer identification means of the customer's cumulative point information before the customer carries out transactions.

2. The point management system according to claim 1, wherein the point notification means notifies the customer of the cumulative point information as primary data through the customer terminal as soon as the customer terminal is turned ON.

3. The point management system according to claim 1, wherein the point notification means notifies the customer identified by the customer identification means of the cumulative point information as primary data through the store terminal.

4. The point management system according to claim 1, wherein the point issue means has rate management means for changing a point calculation rate according to purchase conditions.

5. The point management system according to claim 4, wherein the rate management means changes the point calculation rate according to conditions set for purchases carried out on a predetermined day, in a

predetermined period, or during predetermined hours.

6. The point management system according to claim 4, wherein the rate management means changes the point calculation rate according to conditions set for purchases carried out at stores in a specific area or at a specific counter in a store.

7. The point management system according to claim 4, wherein the rate management means increases the point calculation rate according to conditions set for sales promotion commodities or a specific series of commodities.

8. The point management system according to claim 4, wherein the rate management means changes the point calculation rate according to conditions set for a predetermined number of purchase transactions, the number of purchase transactions carried out in a predetermined period, or the number of purchase transactions carried out by visiting stores.

9. The point management system according to claim 4, wherein the rate management means changes the point calculation rate according to conditions set for the number of accesses at a customer terminal in a specific area, or a time band for accessing the customer terminal.

10. The point management system according to claim 4, wherein the rate management means increases the point calculation rate for operations carried out on the customer terminal in off-hours of communication circuits.

11. The point management system according to claim 1, wherein the point notification means notifies the customer of the point information in images, by voice, or both.

12. The point management system according to claim 11, wherein the point notification means displays the point information on a display of a personal computer at the customer terminal, or on a bidirectional television display through communication circuits.

13. The point management system according to claim 11, wherein the point notification means displays a graph of cumulative points and target points.

14. The point management system according to claim 11, wherein the point notification means displays the target points as the whole of a given screen area and the cumulative points as an area proportional to the target points area with a different color or brightness.

15. The point management system according to claim 11, wherein the point notification means displays the target points of an object requested by the customer as an area and the cumulative points as a proportional part of the target points area with a different color or brightness.

16. The point management system according to claim 11, wherein the point notification means sets an area for the target points of an object requested by the customer and displays part of the area in proportion to the cumulative points.

17. The point management system according to claim 11, wherein the point notification means has service contents storage means for storing a list of types of services and corresponding points, reads data out of the storage means according to a type selected by the customer through the terminal, and notifies the customer of the read data.

18. The point management system according to claim 11, wherein the point notification means has service contents storage means for storing a list of services and corresponding points, selects a range of services available for the cumulative points of the customer, and notifies the customer of the selected services.

19. The point management system according to claim 11, wherein the point notification means is installed in a store shopping-cart or videocart equipped with a display screen device and notifies the customer of

the point information or specific commodity's point information sent in a specific area in a store.

20. The point management system according to claim 11, wherein the point notification means is installed in a store cart and notifies the customer of the point information in voices.

21. The point management system according to claim 11, wherein the point notification means includes a display installed in a store and displays point information of specific customers or customers belonging to predetermined groups.

22. The point management system according to claim 1, wherein the point notification means uses available communication circuits to notify the customer of point information such as target points for a service requested by the customer, the customer's cumulative points, or a shortage of points relative to the target points.

23. The point management system according to claim 1, wherein the point accumulation means has condition monitor means for changing the cumulative points according to predetermined conditions.

24. The point management system according to claim 23, wherein the condition monitor means adds interest to the customer's points according to the cumulative points and periods.

25. The point management system according to claim 23, wherein the condition monitor means decreases the customer's points if the customer carries out no transaction during a predetermined period.

26. The point management system according to claim 1, wherein the point accumulation means has means for converting the customer's points managed by a group of stores into points managed by another group of stores according to a predetermined rate if the customer requests the conversion.

27. The point management system according to

claim 1, wherein the service is provided to the customer through communication circuits.

28. The point management system according to claim 27, wherein the software service is provided to the customer with image and voice data through communication circuits, and the point accumulation means decreases the customer's cumulative points according to a period of time of providing the software service, for example, such as music software, or video software.

29. The point management system according to claim 27, wherein the software service is provided to the customer with image and voice data such as music software or video software, through communication circuits, and the point accumulation means decreases the customer's cumulative points according to a period of time of providing the software services and displays the decreased points on the display of the customer terminal by denoting an alphanumeric number representing the customer's cumulative points and by counting down the customer's cumulative points in order.

30. The point management system according to claim 27, wherein the point accumulation means decreases the customer's cumulative points according to a period of time of providing the software services and displays the decreased points on the display of the customer terminal, by denoting a colored striped line thereof and by reducing the length of the colored striped line in order.

31. The point management system according to claim 1, wherein the point information is supplied to the customer through the customer or store terminal through communication circuits.

32. The point management system according to claim 30, wherein the point information includes target points and corresponding electronic services.

33. The point management system according to claim 30, wherein the point information includes services corresponding to the customer's cumulative points

provided by the point accumulation means.

34. The point management system according to claim 30, wherein the point information includes the customer's cumulative points, or a shortage of points with respect to target points registered or specified by the customer.

35. The point management system according to claim 30, wherein the point information includes the validity of the customer's cumulative points.

36. The point management system according to claim 1, wherein the point issue means issues points to the customer without disclosing points allocated for commodities.

37. The point management system according to claim 35, wherein the point issue means issues points for each transaction while changing points or point calculation rates allocated for commodities at random within a predetermined range.

38. The point management system according to claim 1, wherein the point issue means issues bonus points to the customer if the number of transactions made by the customer reaches a predetermined number.

39. The point management system according to claim 1, wherein the point accumulation means collects and accumulates points issued to each customer belonging to a group if the customer identification means identifies that the customer belongs to the group.

SERVICE POINT MANAGEMENT SYSTEM FOR USE
IN SALES PROMOTION SERVICES

5

ABSTRACT OF THE DISCLOSURE

10 A service point management system employs a computer
for managing points issued to each customer who receives
service according to the points. A point issue unit
issues points to the customer according to transactions
performed by the customer. A point accumulation unit
calculates and accumulates the issued points. A point
15 notification unit notifies the customer of point
information. A customer identification unit identifies
the customer according to customer identification data
entered through a customer or store terminal. The point
notification unit notifies the customer identified by the
20 customer identification unit of the customer's cumulative
point information before the customer carries out
transactions.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Tokimori TOMITA et al.

Prior Application Group Art Unit: 2763

Div. of Application No. 08/864,762

Prior Application Examiner: S. Tkacs

Filed: October 8, 1999

For: SERVICE POINT MANAGEMENT SYSTEM FOR USE IN SALES PROMOTION SERVICES

LETTER TO THE EXAMINER REQUESTING APPROVAL OF
CHANGES TO THE DRAWINGS

*Assistant Commissioner for Patents
Washington, D.C. 20031*

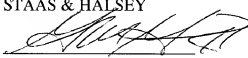
Sir:

Applicants are submitting herewith changes to Figures 1, 2, 8(A), 8(B), 10(A), 10(B), 11(A), 11(B), 12(A), 12(B), 13(A), 13(B), 14(A), 14(B), 15(A), 15(B), 16(A), 16(B), 17(A), 17(B), 18(A), 18(B), 19(A), 19(B), 20, 21(A), 21(B), 22(A), 23, 25(A), 26(A), 27(A), 28(A), 29(A), 29(B), and 31, as indicated in RED on the attached copies of same.

In the event any fees are required in connection with this paper, please charge our Deposit Account No. 19-3935.

Respectfully submitted
STAAS & HALSEY

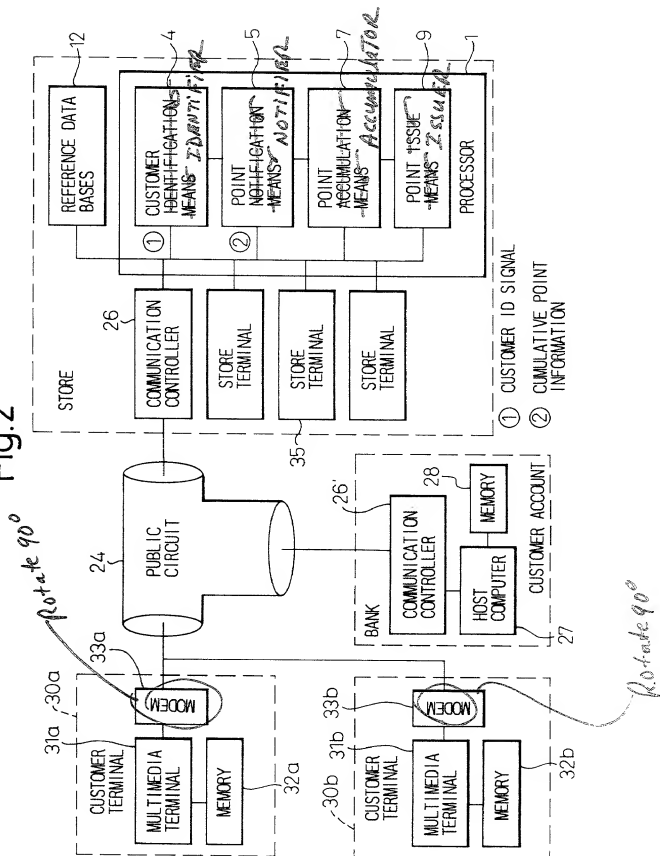
By:


Gene M. Garner, II
Registration No. 34,172

Dated: October 8, 1999
700 Eleventh Street, N.W., Ste. 500
Washington, D.C. 20001
(202) 434-1500
GMG/adT

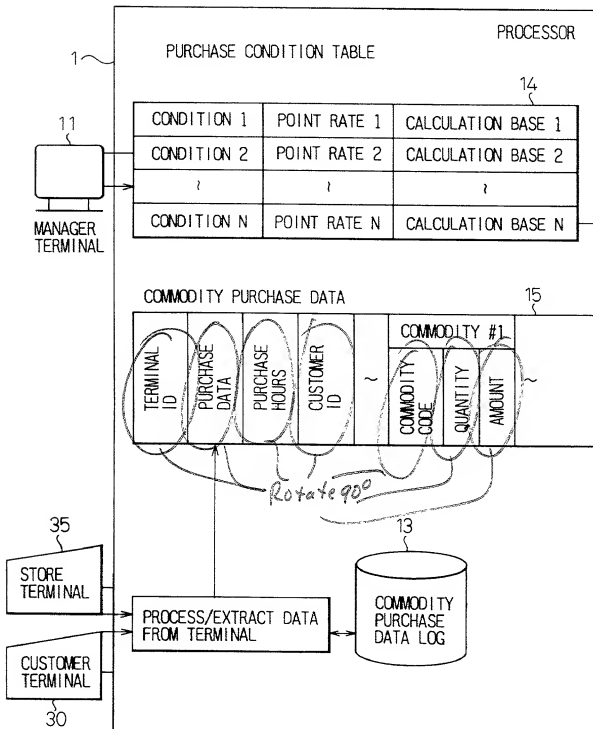


Fig. 2



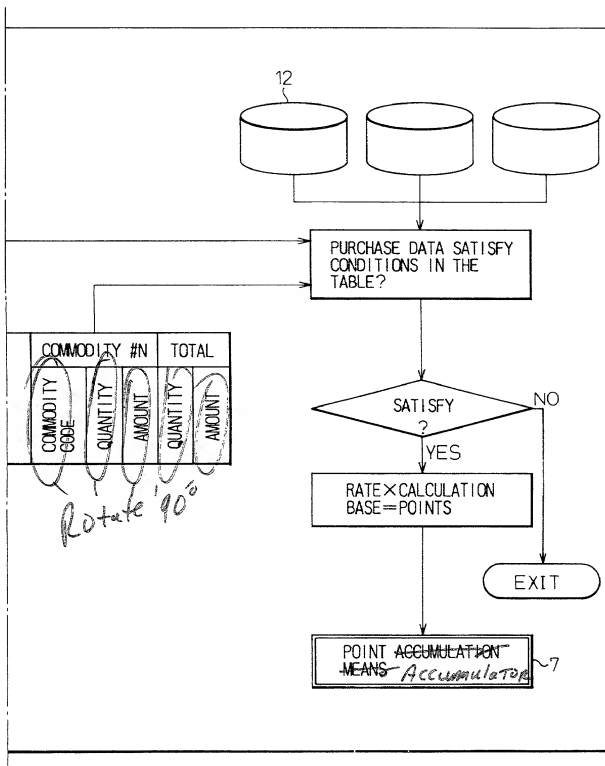
9/54
Fig.8(A)

~~Fig.8(A)~~ ~~Fig.8(B)~~



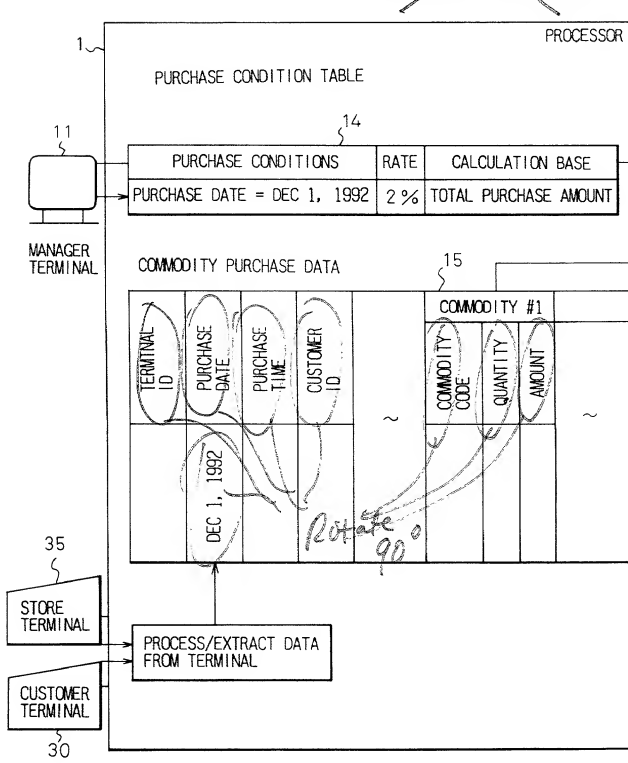
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Fig.8(B)

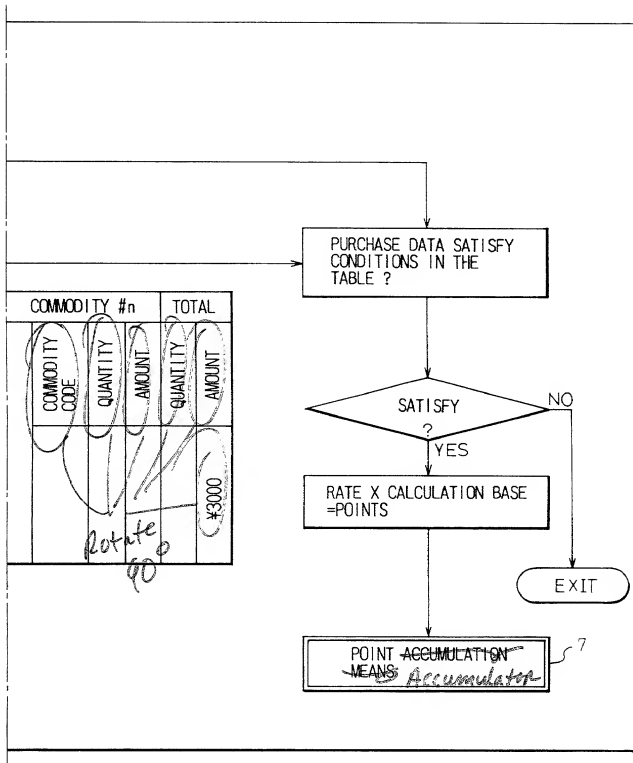


15/54
Fig.10(A)

~~Fig.10~~
~~Fig.10(A) Fig.10(B)~~



16/54
Fig.10(B)



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Fig.11(A)

~~Fig.11~~

~~Fig.11(A)~~

~~Fig.11(B)~~

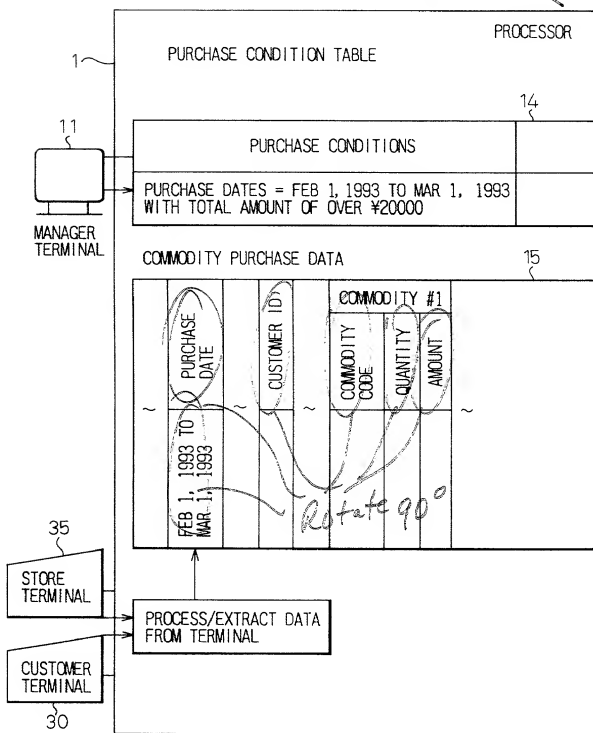
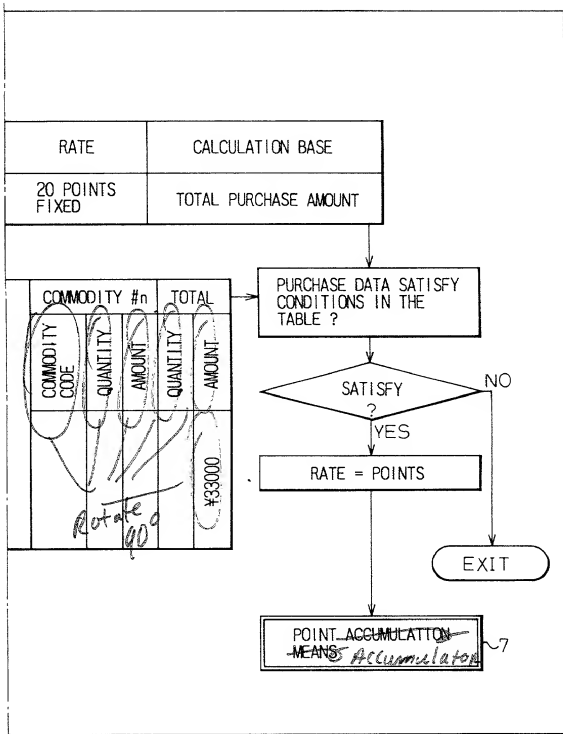


Fig.11(B)

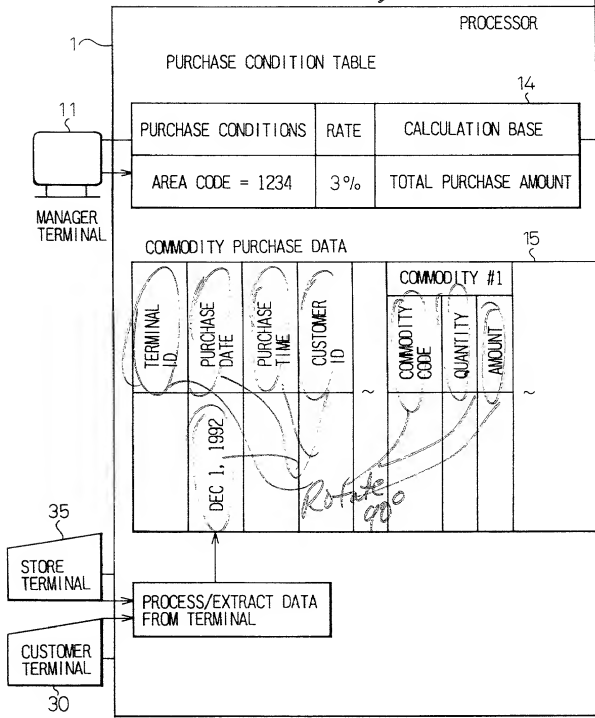


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Fig.12(A)

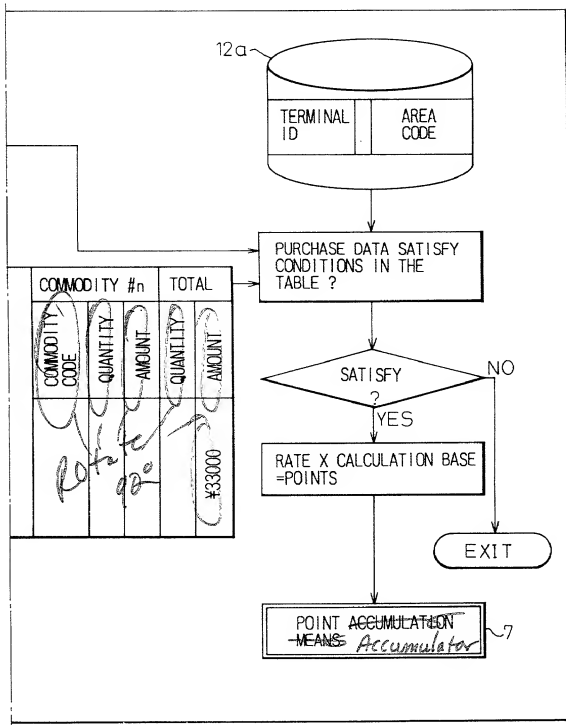
~~Fig.12~~

~~Fig.12(A) Fig.12(B)~~



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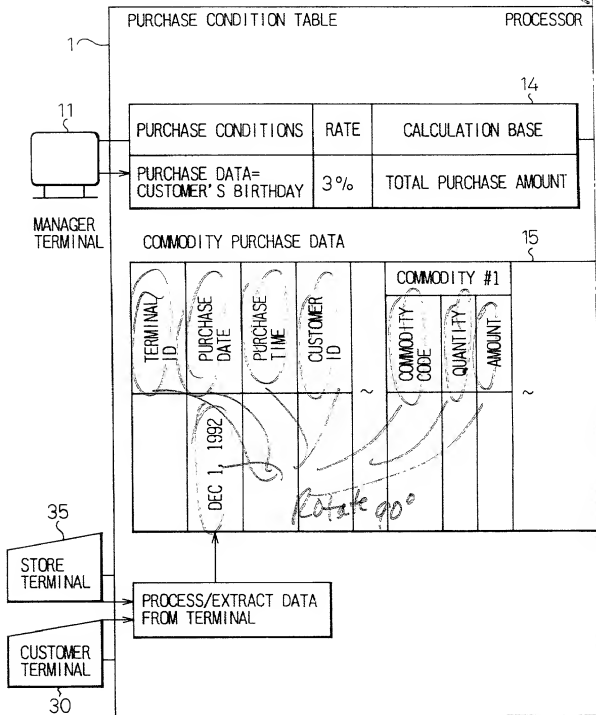
Fig.12(B)



21/54
Fig.13(A)

~~Fig.13~~

~~Fig.13(A) Fig.13(B)~~



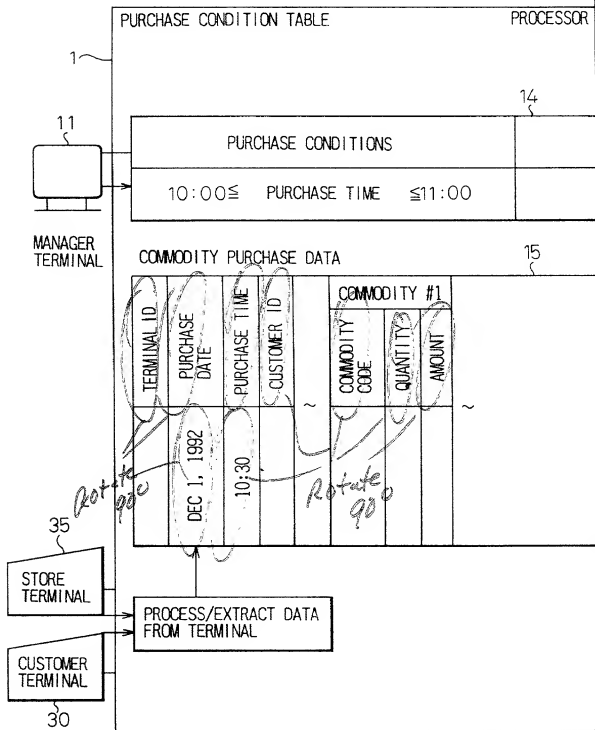


23/54

Fig.14(A)

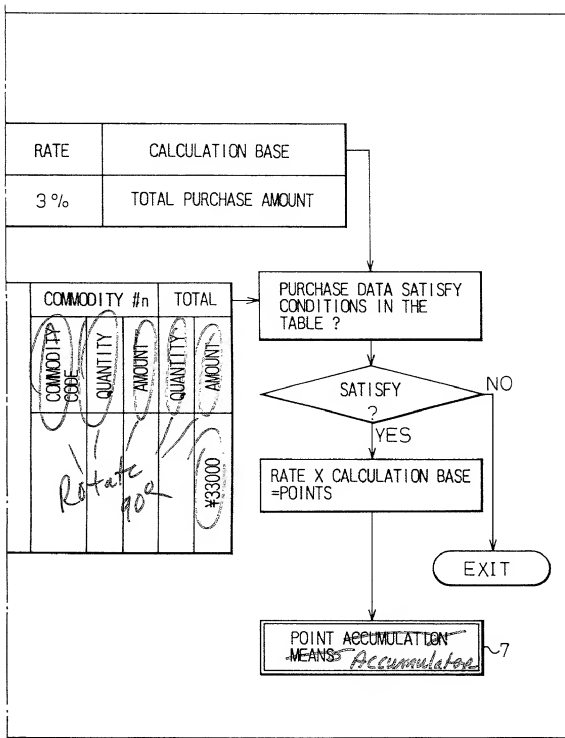
~~Fig.14~~

~~Fig.14(A) Fig.14(B)~~



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Fig.14(B)

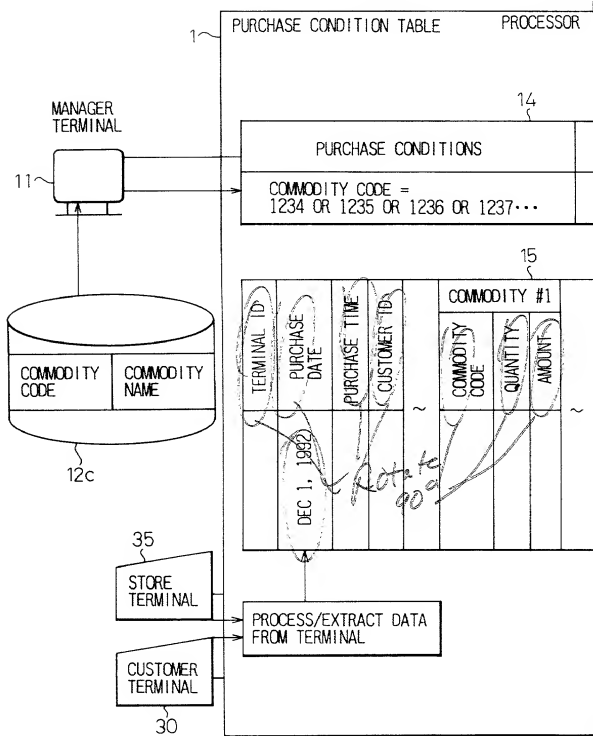


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Fig.15(A)

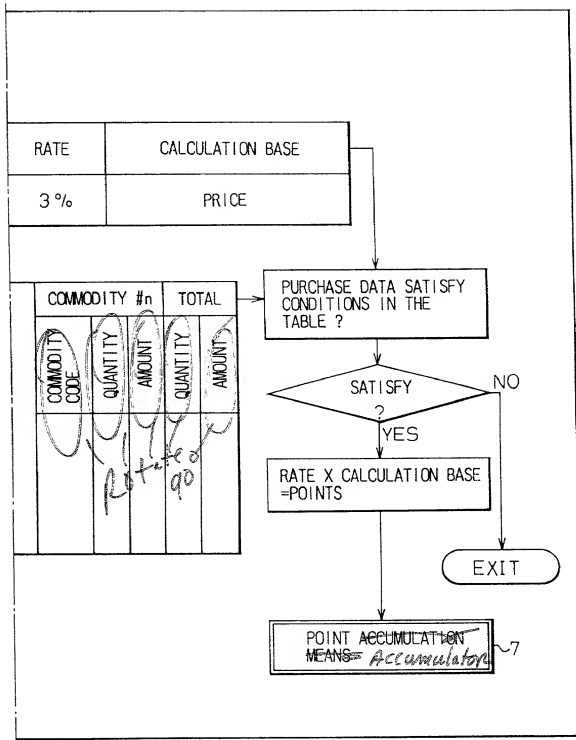
Fig.15

Fig.15(A) Fig.15(B)



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Fig.15(B)



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Fig.16(A)

~~Fig.16~~

~~Fig.16(A) Fig.16(B)~~

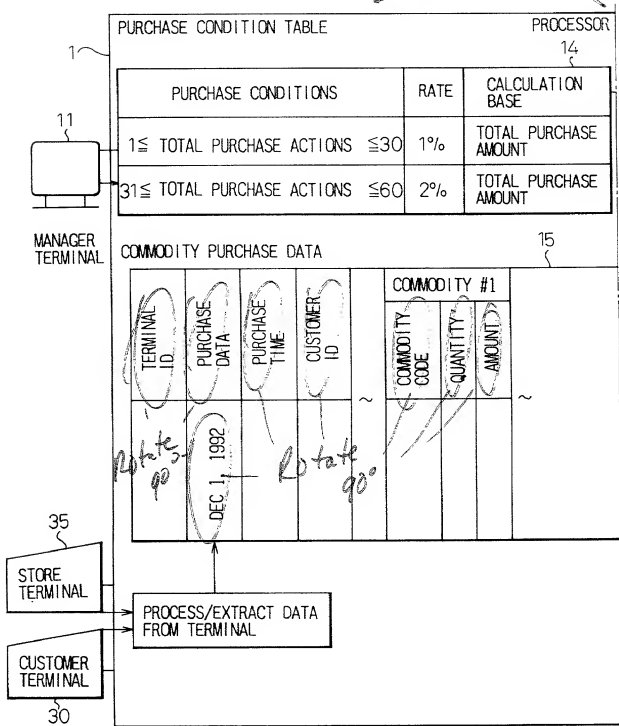
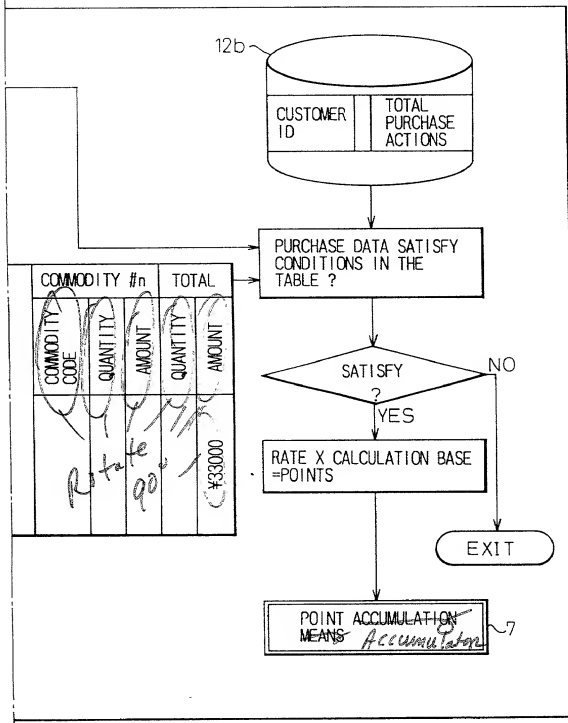


Fig.16(B)



29/54

Fig.17(A)

~~Fig.17~~

~~Fig.17(A) Fig.17(B)~~

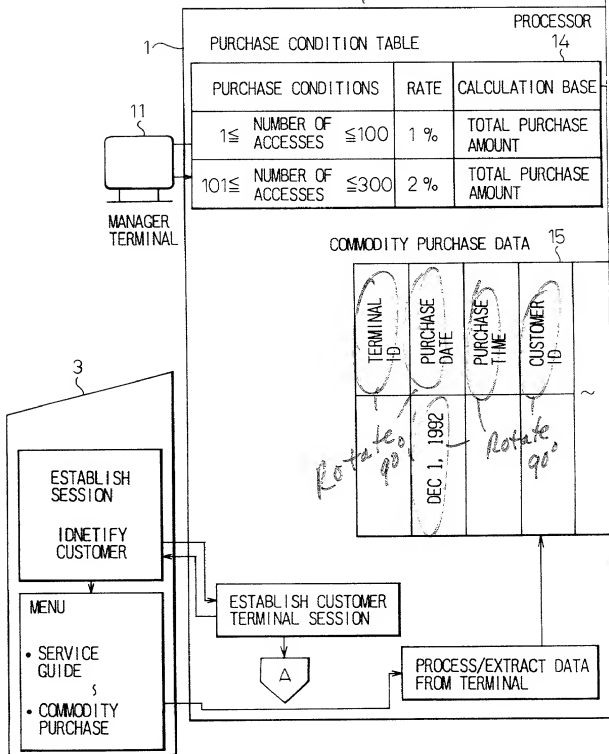
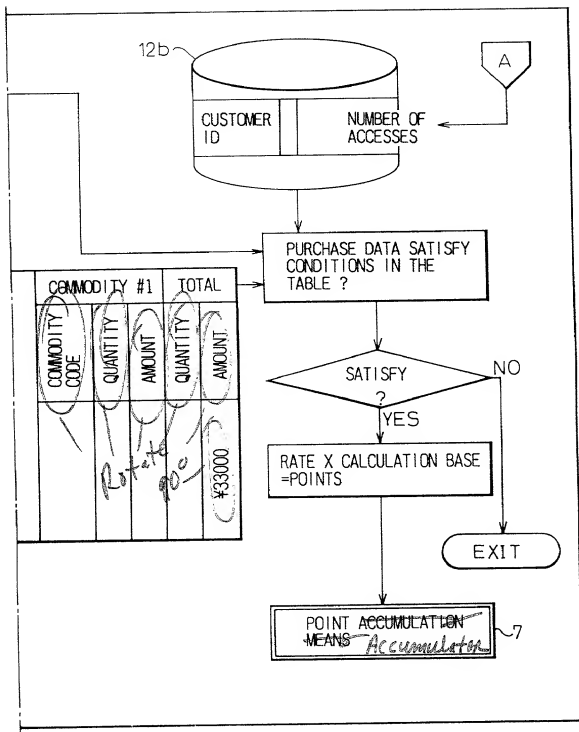


Fig.17(B)

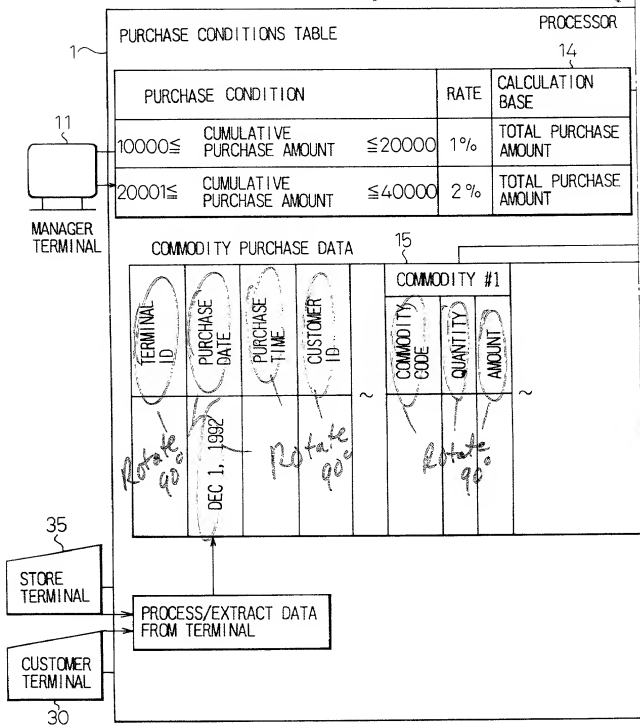


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Fig.18(A)

~~Fig.18~~

~~Fig.18(A) Fig.18(B)~~



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Fig.18(B)

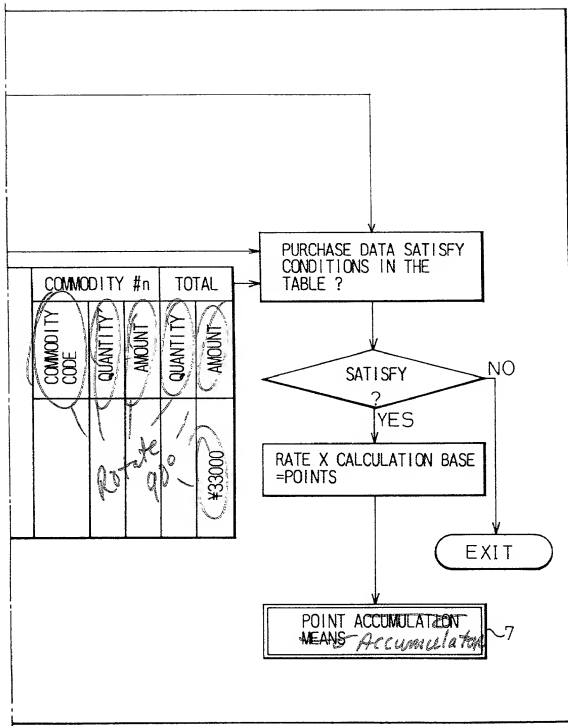
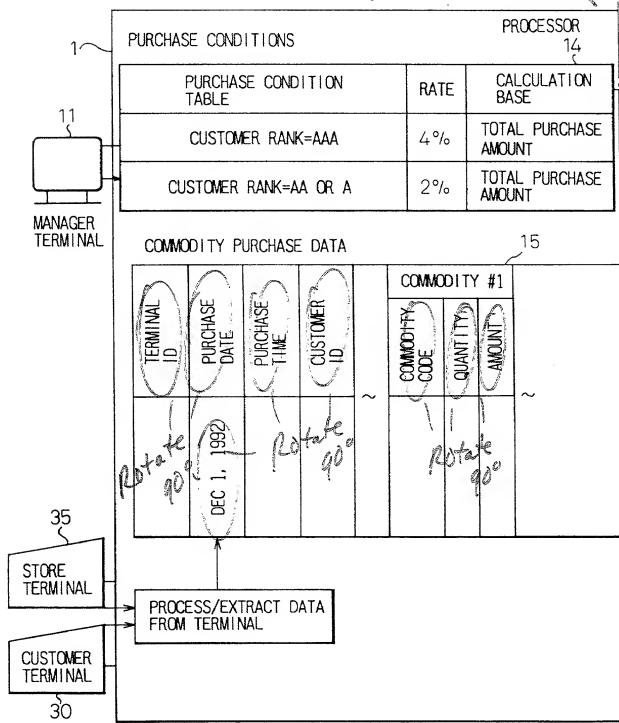


Fig.19(A)

~~Fig.19~~

~~Fig.19(A) Fig.19(B)~~



12b

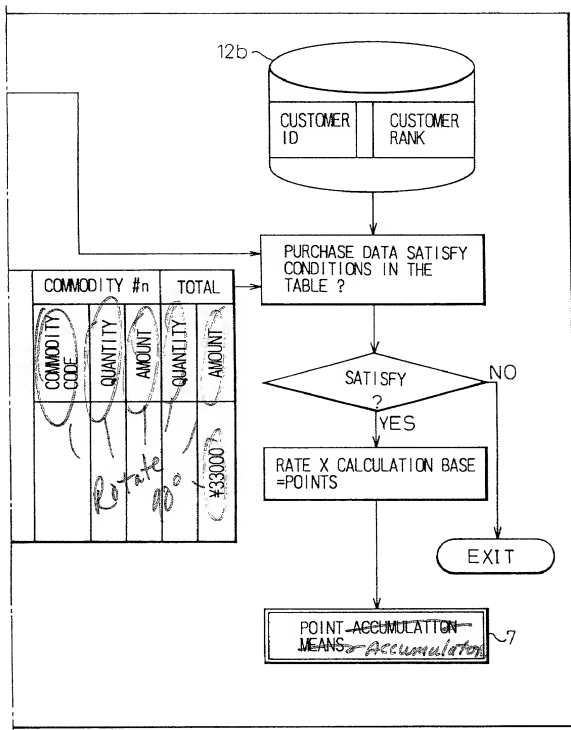


Fig. 20

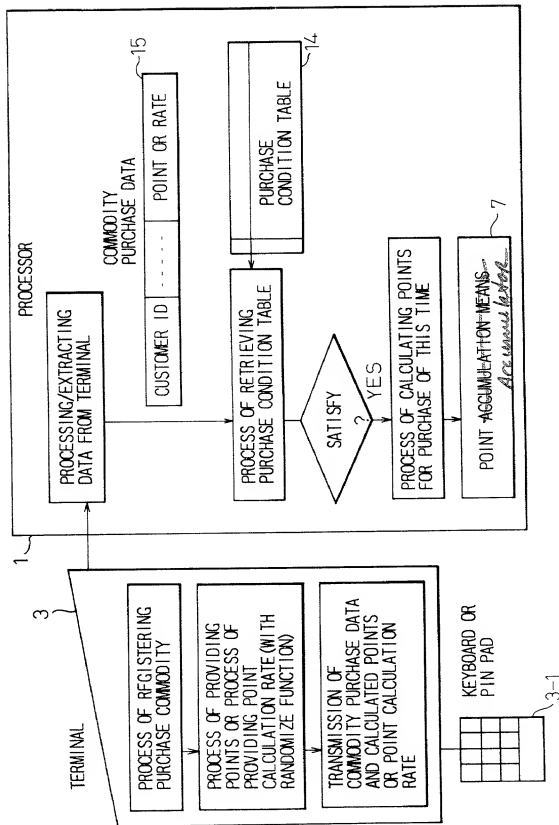


Fig. 21

Fig. 21(A)

Fig. 21(A) | Fig. 21(B)

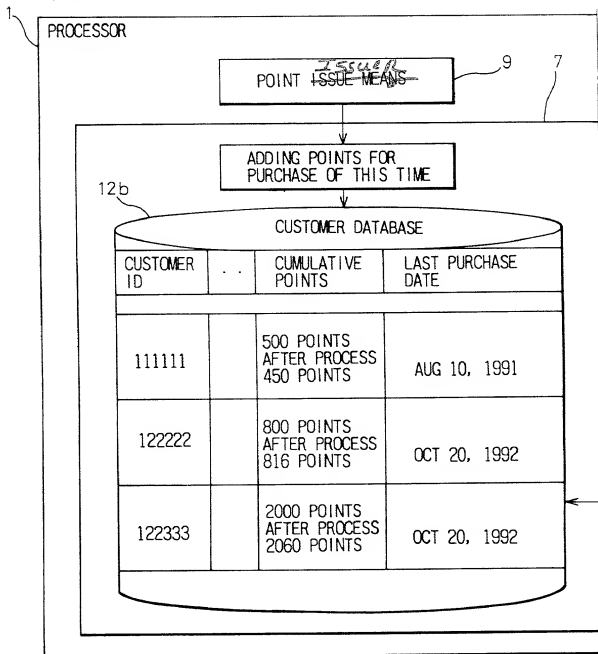


Fig.21(B)

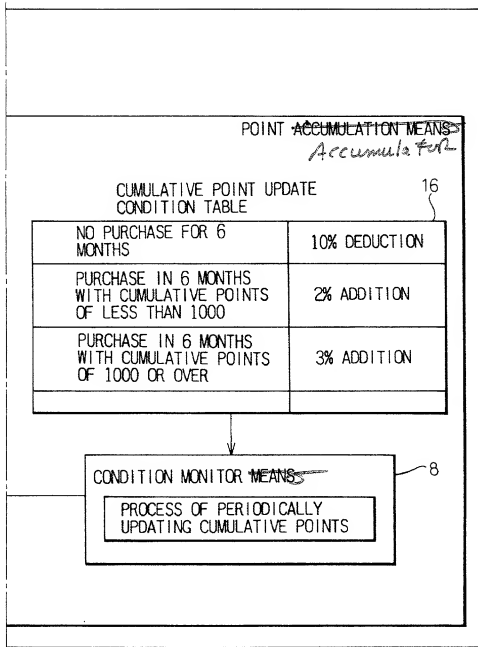


Fig. 22(A)

~~Fig. 22(A)~~
~~Fig. 22(B)~~

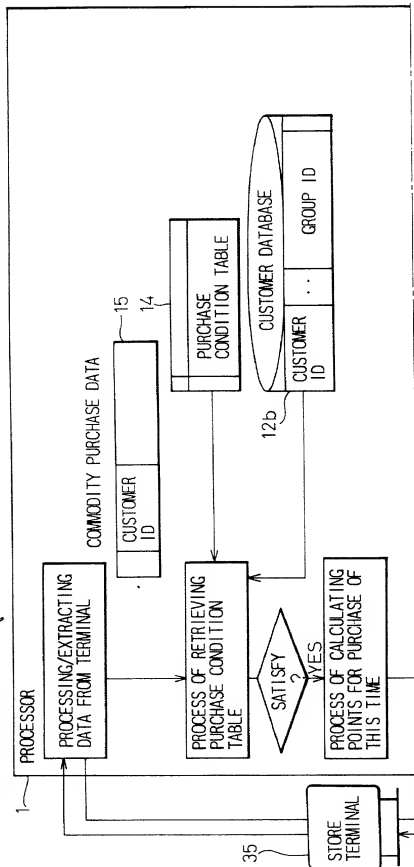
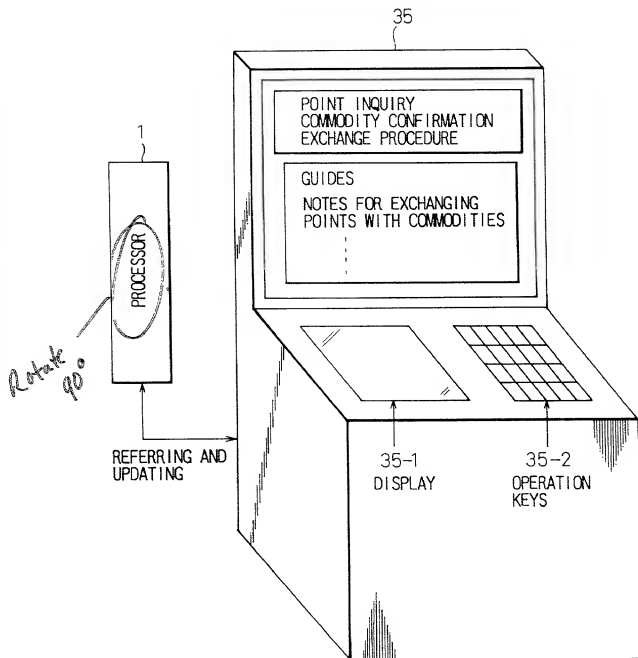


Fig. 23

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~~Fig. 25~~

Fig. 25(A)

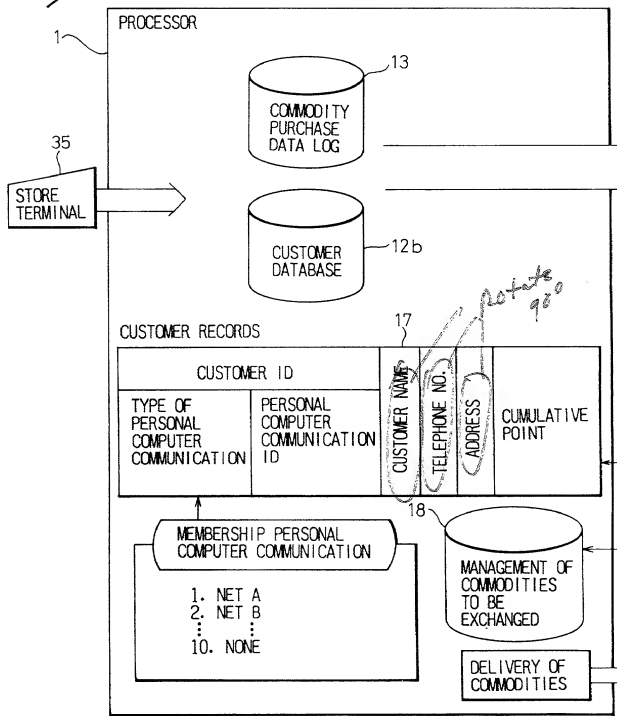
~~Fig. 25(A) | Fig. 25(B)~~

Fig. 26

Fig. 26(A)

Fig. 26(A) Fig. 26(B)

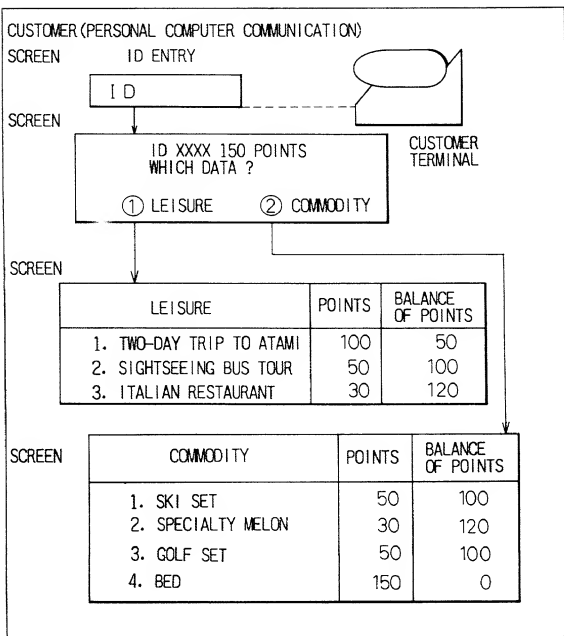


Fig.27

Fig.27(A) Fig.27(B)

Fig.27(A)

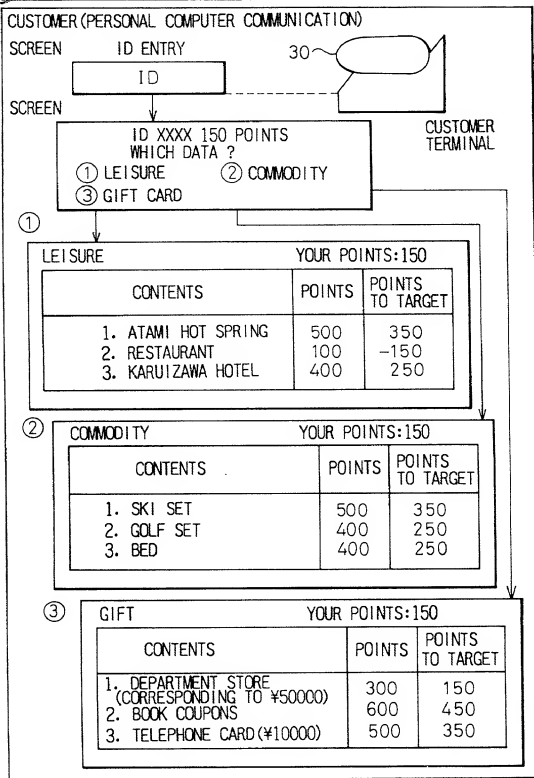
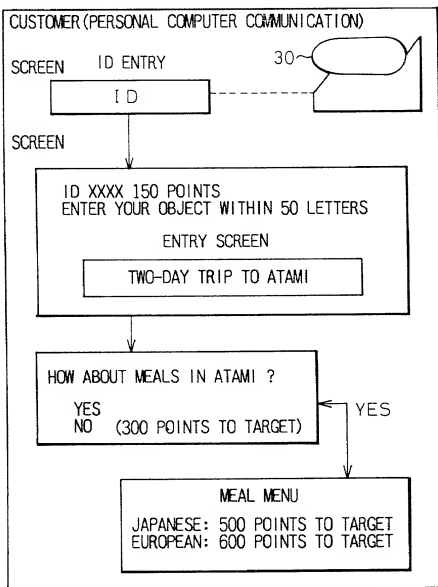


Fig. 28

Fig. 28(A)

Fig. 28(A) Fig. 28(B)



~~Fig. 25~~~~Fig. 29(A) Fig. 29(B)~~

Fig. 29(A)

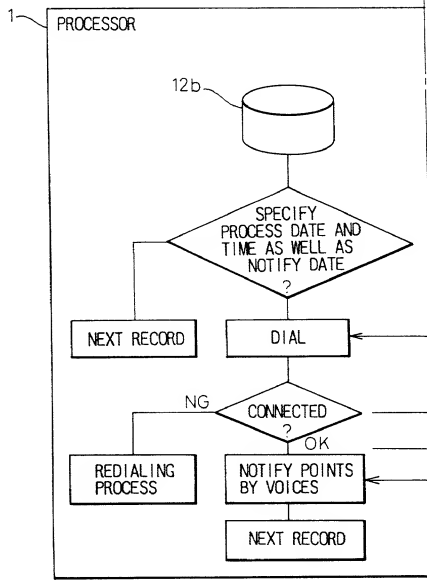
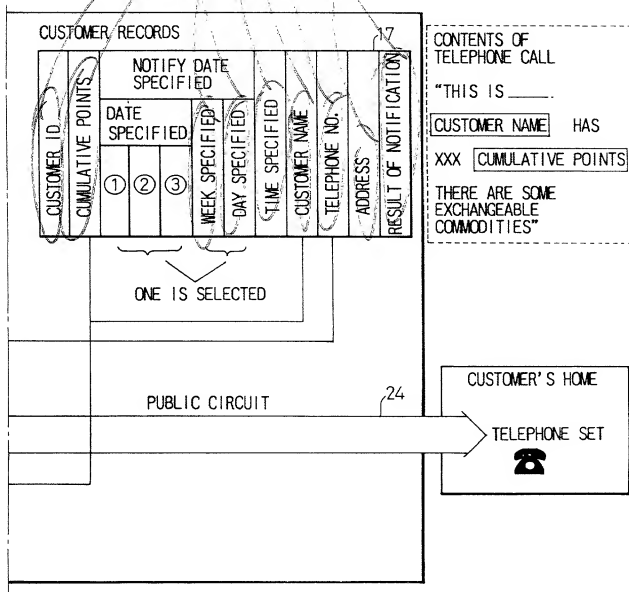


Fig 29(B)



54/
54

Fig.31

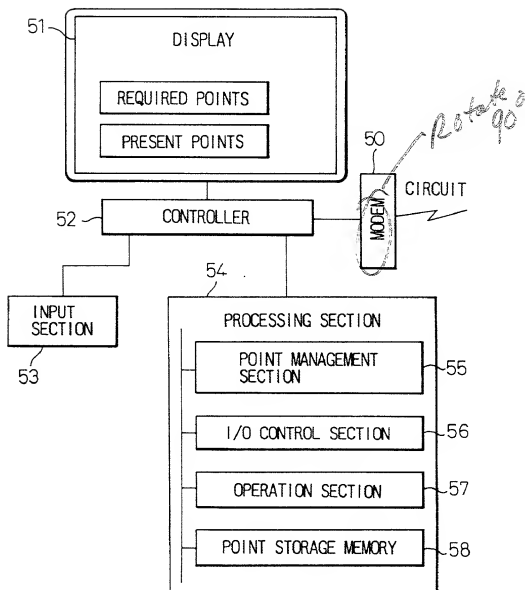


Fig.1

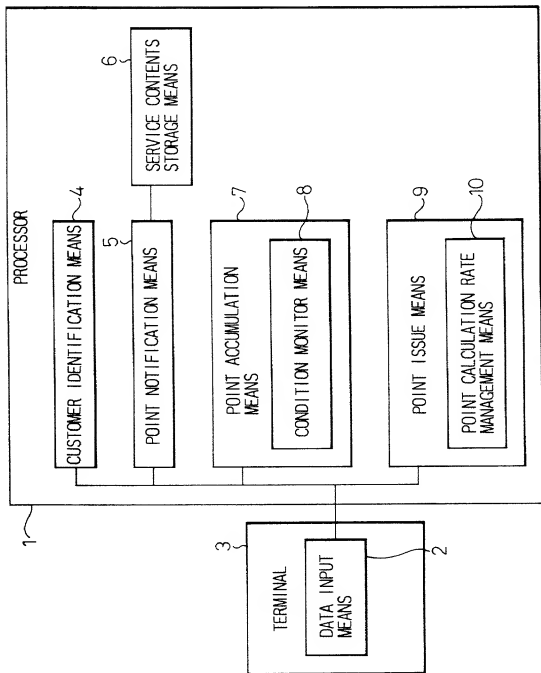


Fig.2

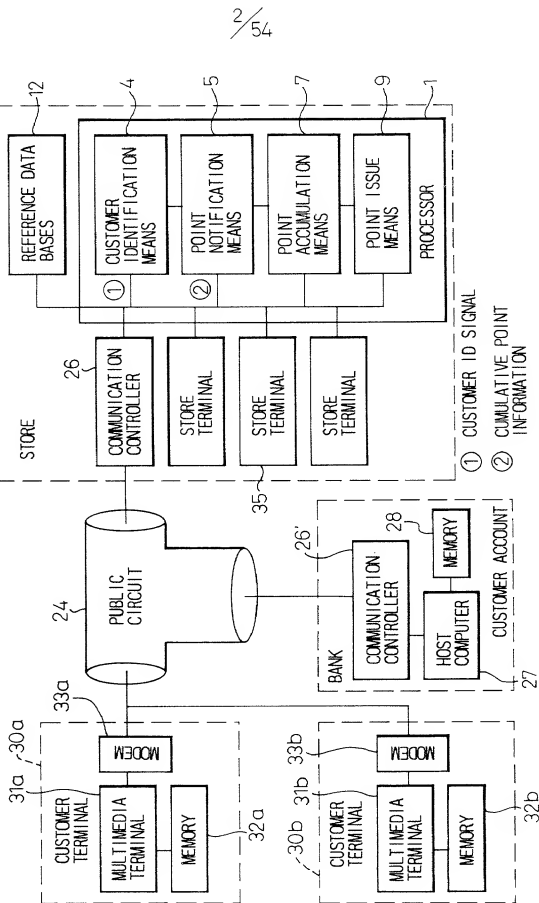


Fig.3

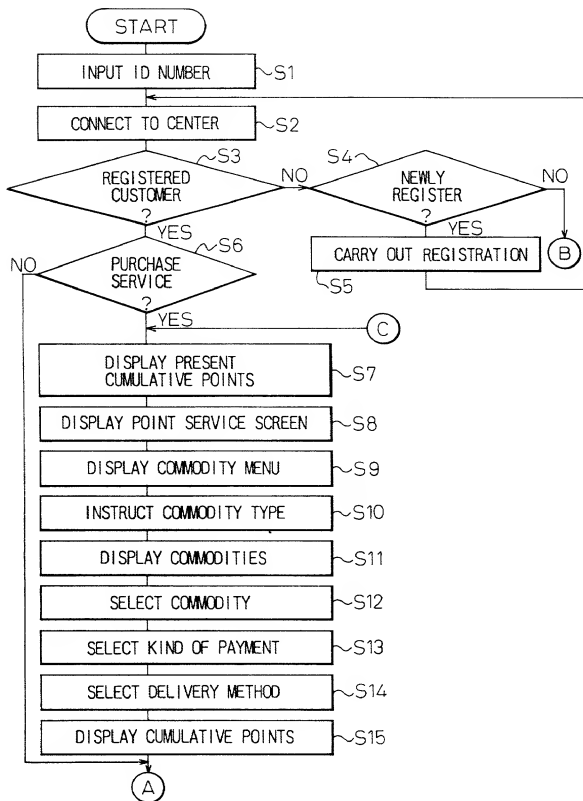


Fig.4

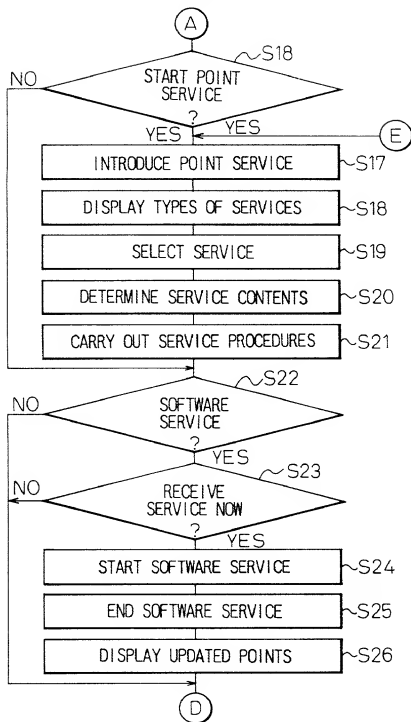


Fig.5

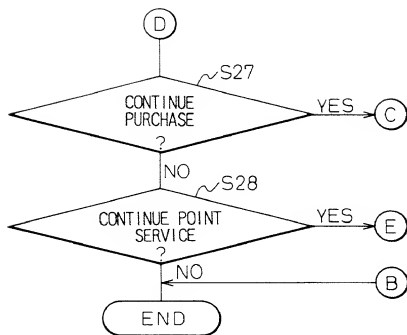


Fig.6

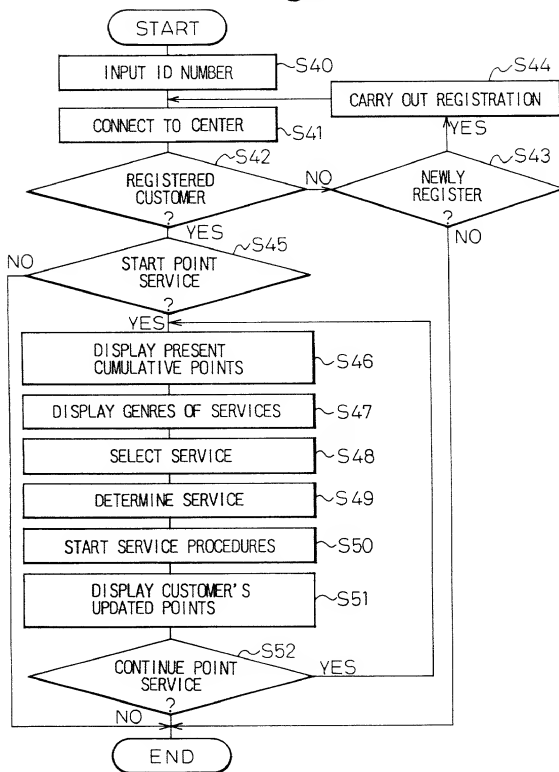


Fig.7(A)

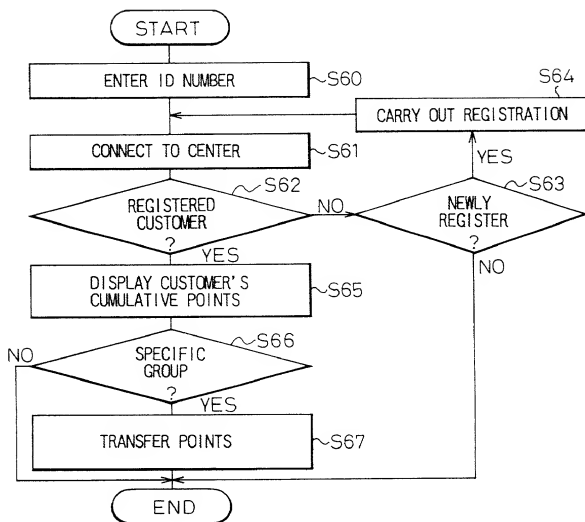


Fig.7(B)

GROUP NAME	TARGET	TARGET POINTS	PRESENT CUMULATIVE POINTS
NAKAHARA ELEMENTARY SCHOOL	MONOCYCLES (10 SETS)	50,000	35,000
KOSUGI NURSING HOME	WHEEL CHAIRS (3 SETS)	60,000	20,000
SUPPORT ASSOCIATION FOR CHILDREN ORPHANED IN TRAFFIC ACCIDENTS	PERSONAL COMPUTER	40,000	15,000
⋮	⋮	⋮	⋮
SOMALIA AID ASSOCIATION	FOOD	300,000	80,000

LET'S PARTICIPATE IN SOCIAL CONTRIBUTION ACTIVITIES

Fig.8(A)

Fig.8

Fig.8(A)	Fig.8(B)
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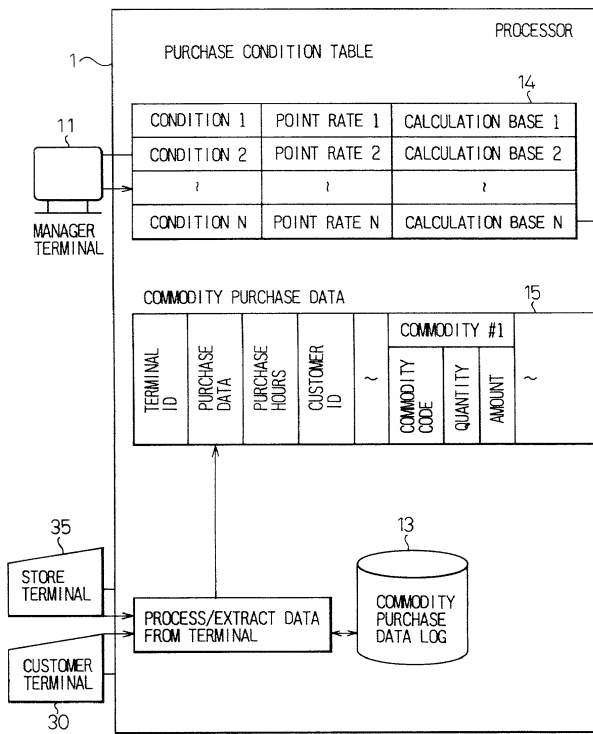


Fig.8(B)

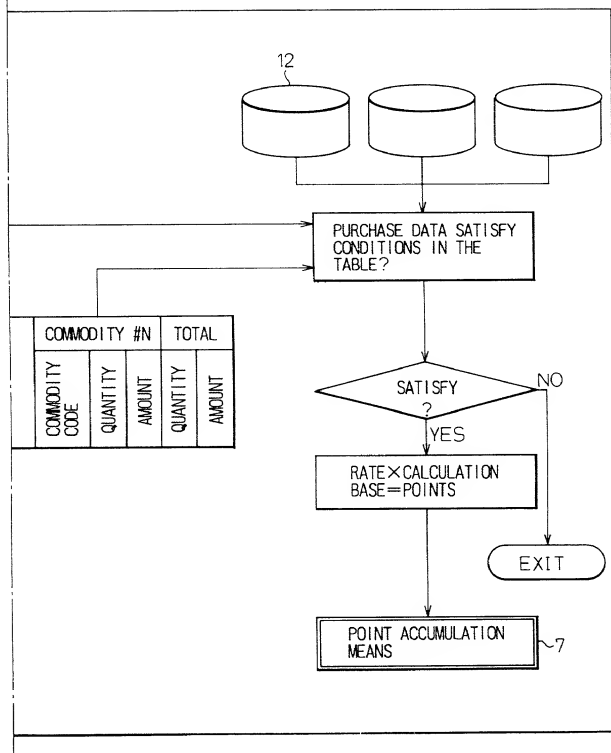


Fig.9(A)

SET POINT CALCULATION RATE FOR SPECIFIC DAYS

- SELECT ONE
 1. DATE: MONTH__DAY__
 2. PERIOD: MONTH__DAY__ TO MONTH__DAY__
 3. DAY: __, __
- RATE: __%
- CALCULATION BASE:
 1. AMOUNT OF MONEY
 2. TOTAL POINTS

Fig.9(B)

SET POINT CALCULATION RATE FOR SPECIFIC PERIOD

- PERIOD: MONTH__DAY__ TO MONTH__DAY__
- CALCULATION BASE:
 1. AMOUNT OF MONEY
 2. TOTAL POINTS
 3. NUMBER OF PURCHASE ACTIONS
- MINIMUM: __ OR MORE
- RATE: __ POINTS

Fig.9(C)

SET POINT CALCULATION RATE FOR SPECIFIC AREA

- AREA CODE: __
- CALCULATION BASE:
 1. AMOUNT OF MONEY
 2. TOTAL POINTS
- RATE: __%

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Fig. 9(D)

SET POINT CALCULATION RATE FOR CUSTOMER'S SPECIFIC DAY

- SELECT CUSTOMER'S SPECIFIC DAY
 - 1. BIRTHDAY 2. WEDDING ANNIVERSARY
 - 3. BIRTHDAYS OF FAMILY 4. DATE OF ADMISSION
- CALCULATION BASE:
 - 1. AMOUNT OF MONEY 2. TOTAL POINTS
- RATE: __%

Fig. 9(E)

SET POINT CALCULATION RATE FOR SPECIFIC TIME BAND

- SPECIFY TIME BAND
 - __ : __ TO __ : __
- CALCULATION BASE:
 - 1. AMOUNT OF MONEY 2. TOTAL POINTS
- RATE: __%

Fig. 9(F)

SET POINT CALCULATION RATE FOR SPECIFIC COMMODITIES

COMMODITY CODE	COMMODITY NAME
\$	\$

• RATE: __ % (COMMODITY PRICE)

Fig. 9(G)

SET POINT CALCULATION RATE FOR NUMBER OF PURCHASE

NUMBER OF PURCHASE	RATE
1 TO 30	1%
31 TO 60	2%
61 -	3%

(POINTS ARE CALCULATED ON TOTAL AMOUNT.)

Fig. 9(H)

SET POINT CALCULATION RATE FOR NUMBER OF ACCESSSES

NUMBER OF ACCESSSES	RATE
1 TO 100	1%
101 TO 300	2%
301 -	3%

(POINTS ARE CALCULATED ON TOTAL AMOUNT.)

Fig. 9(I)

SET POINT CALCULATION RATE FOR AMOUNT

PURCHASE AMOUNT	RATE
¥10,000~¥20,000	1%
¥20,001~¥40,000	2%
¥40,001~	3%

(POINTS ARE CALCULATED ON TOTAL AMOUNT.)

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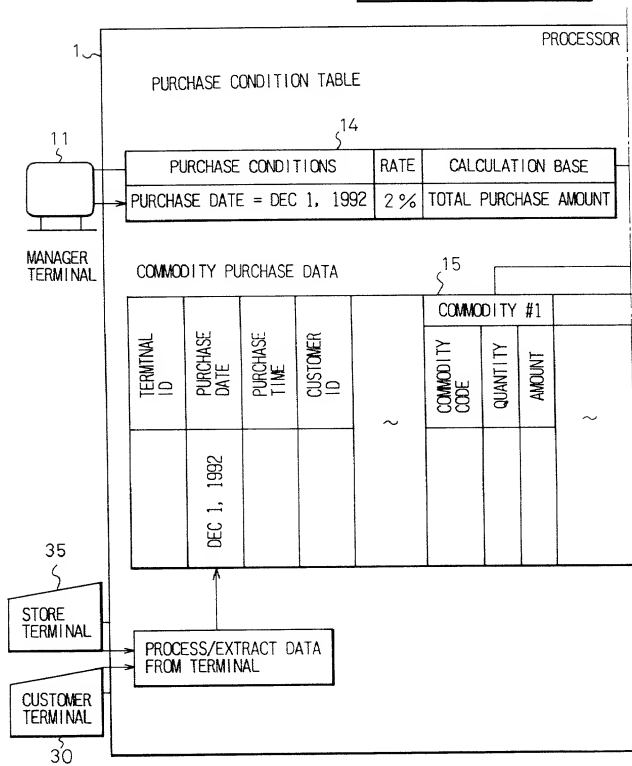
Fig. 9(J)

SET POINT CALCULATION RATE FOR CUSTOMER RANK			
CUSTOMER RANK	RATE	CUSTOMER RANK	RATE
AAA	— %	C	— %
AA	— %	D	— %
A	— %	E	— %
B	— %	F	— %

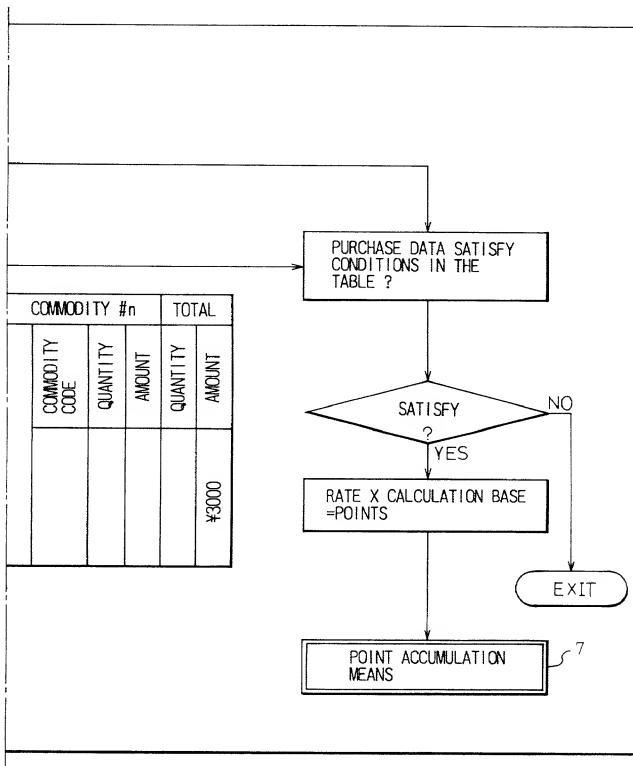
(POINTS ARE CALCULATED ON TOTAL AMOUNT.)

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Fig.10(A)

Fig.10
Fig.10(A) Fig.10(B)



16/54
Fig.10(B)



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Fig.11(A)

Fig.11

Fig.11(A) Fig.11(B)

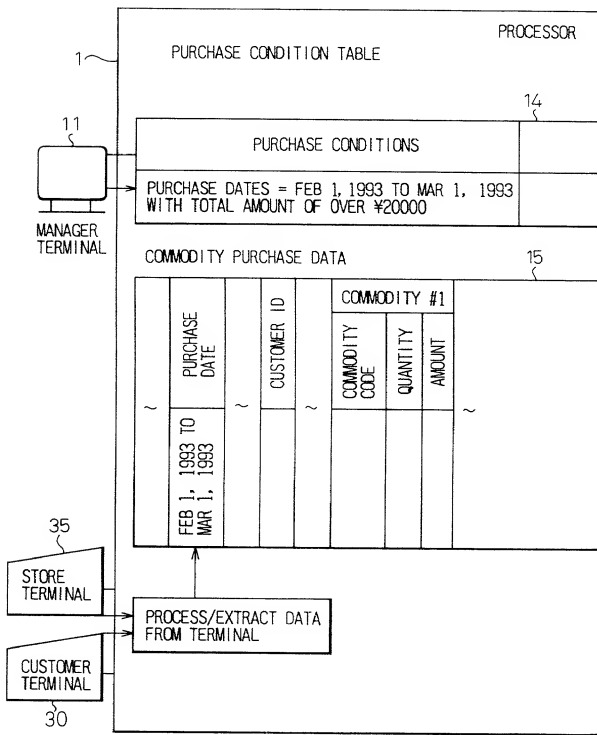
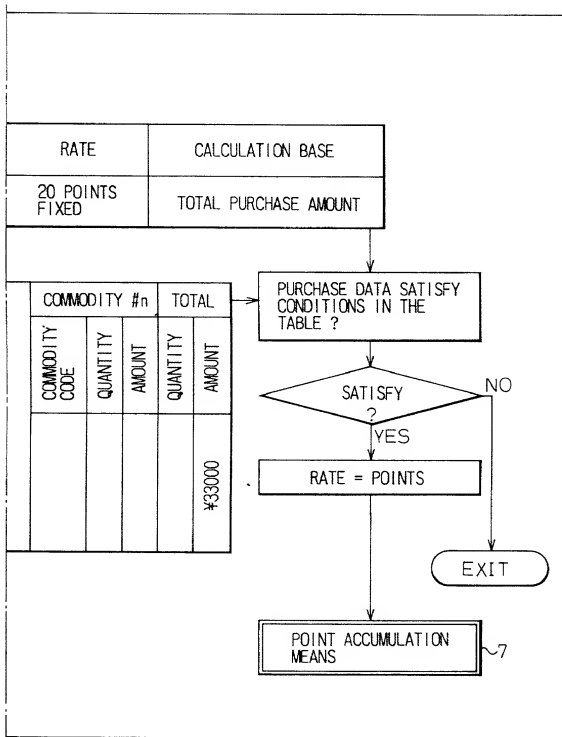


Fig.11(B)



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Fig.12(A)

Fig.12

Fig.12(A) Fig.12(B)

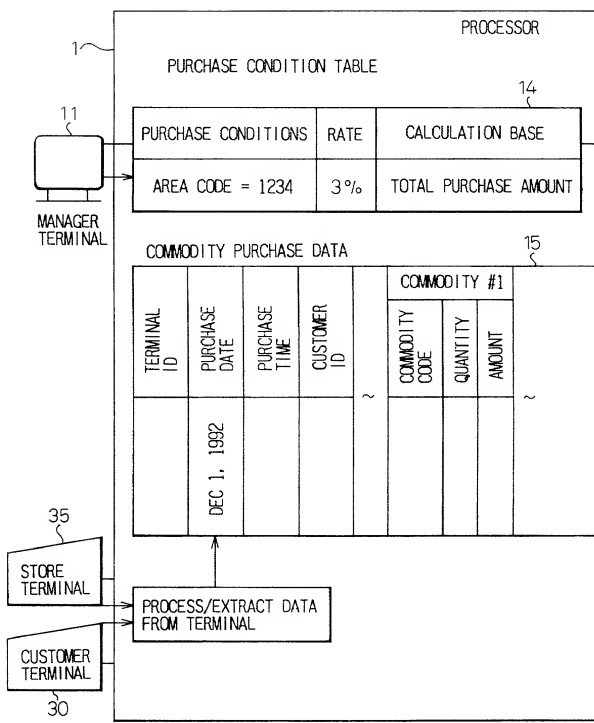
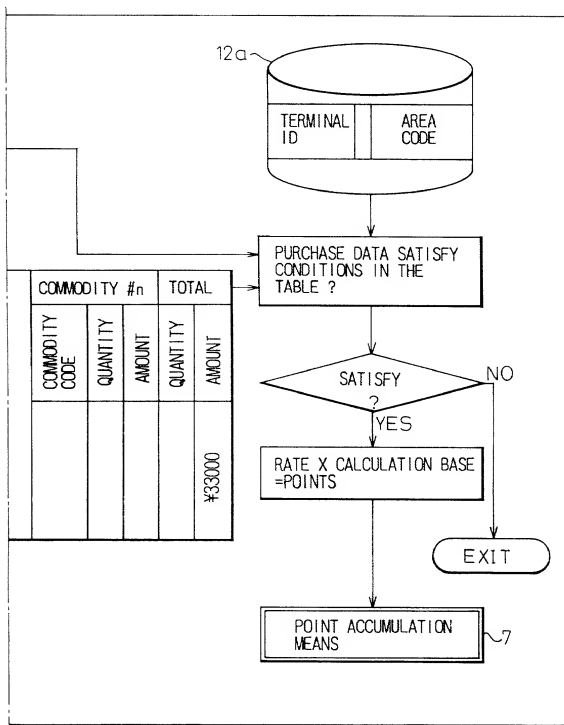


Fig.12(B)

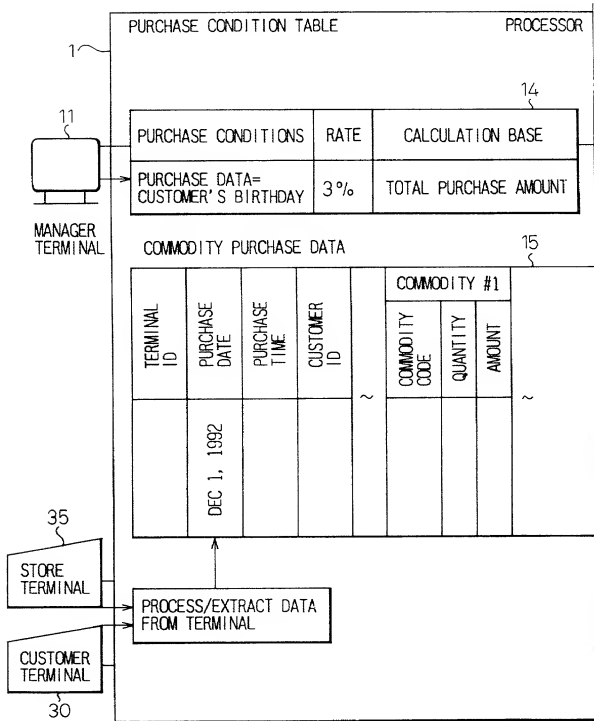


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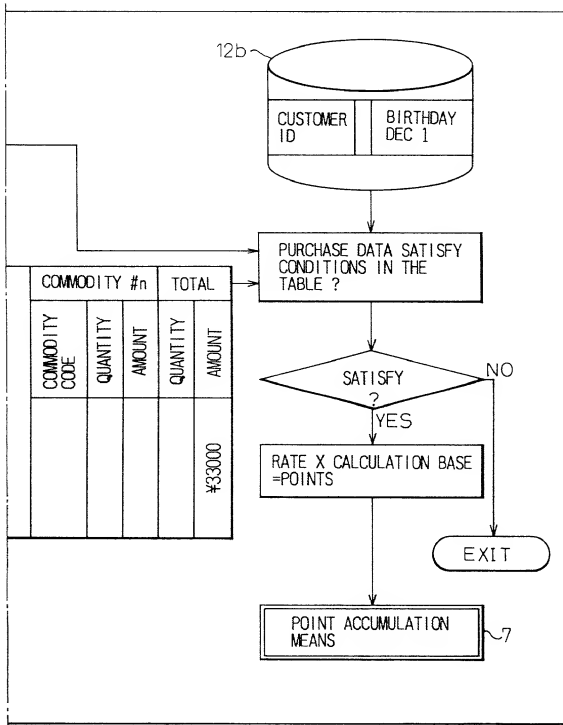
Fig.13(A)

Fig.13

Fig.13(A) Fig.13(B)



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Fig.13(B)



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Fig.14(A)

Fig.14

Fig.14(A) Fig.14(B)

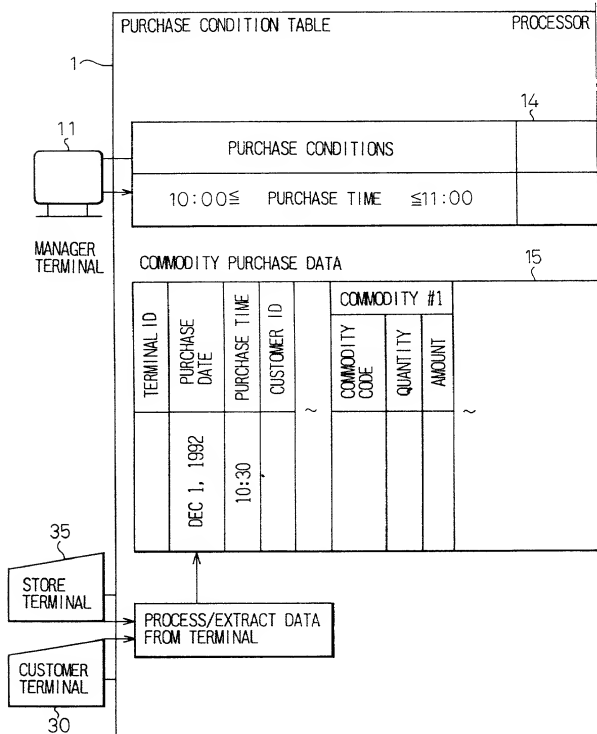
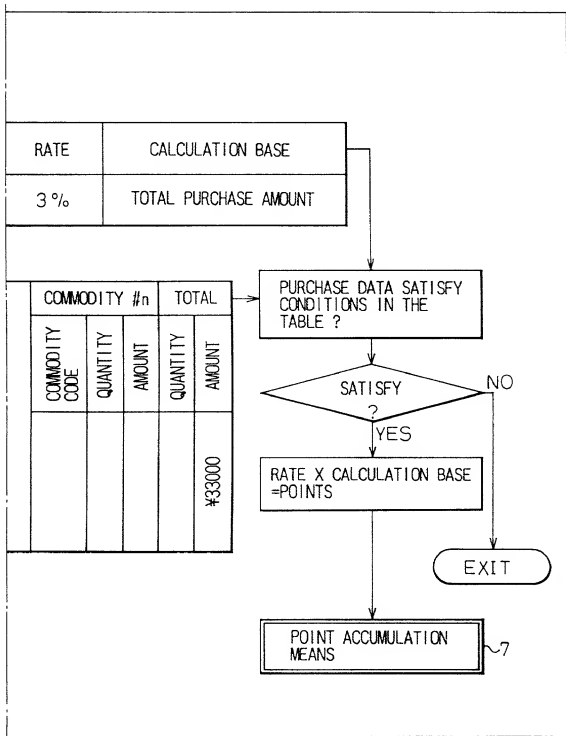


Fig.14(B)



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Fig.15(A)

Fig.15

Fig.15(A) | Fig.15(B)

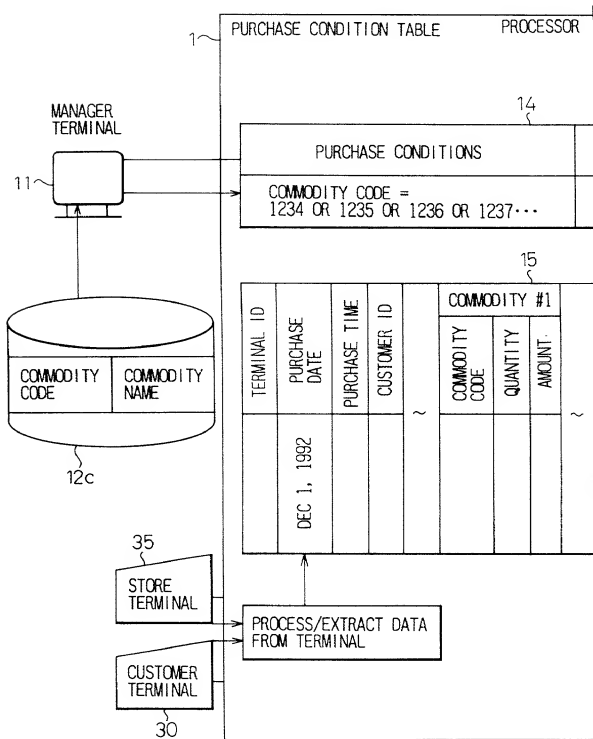
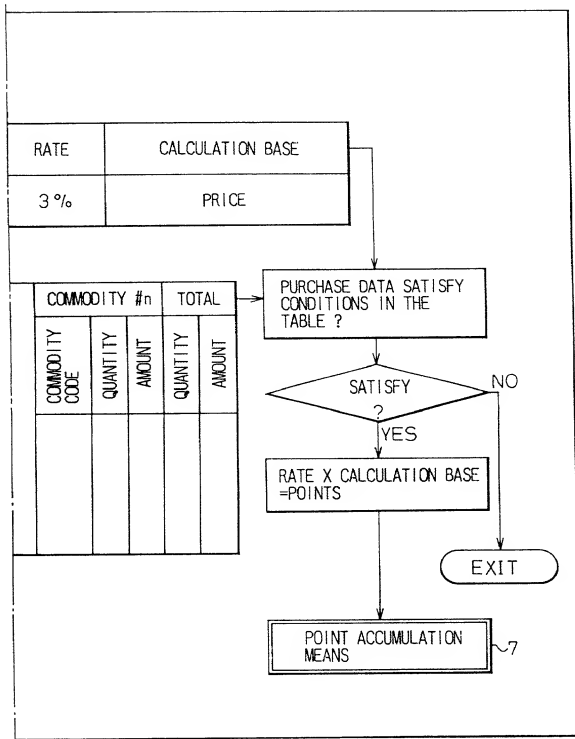


Fig.15(B)



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Fig.16(A)

Fig.16

Fig.16(A) Fig.16(B)

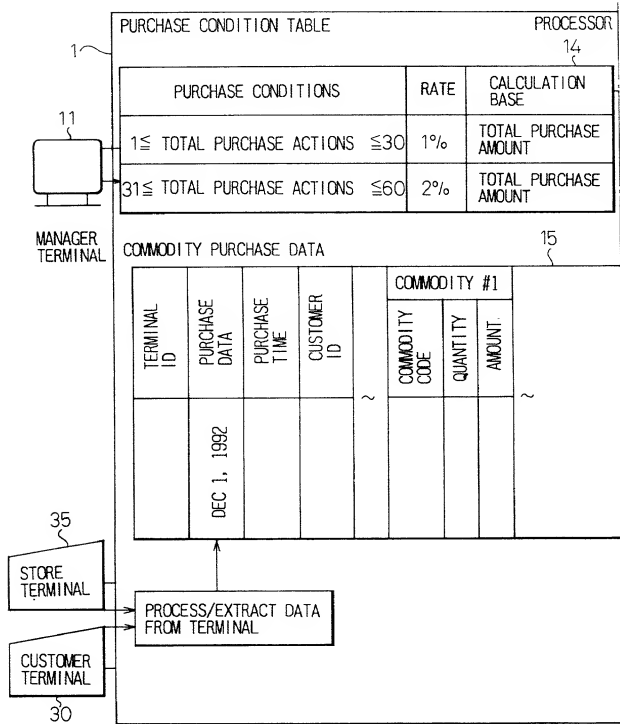
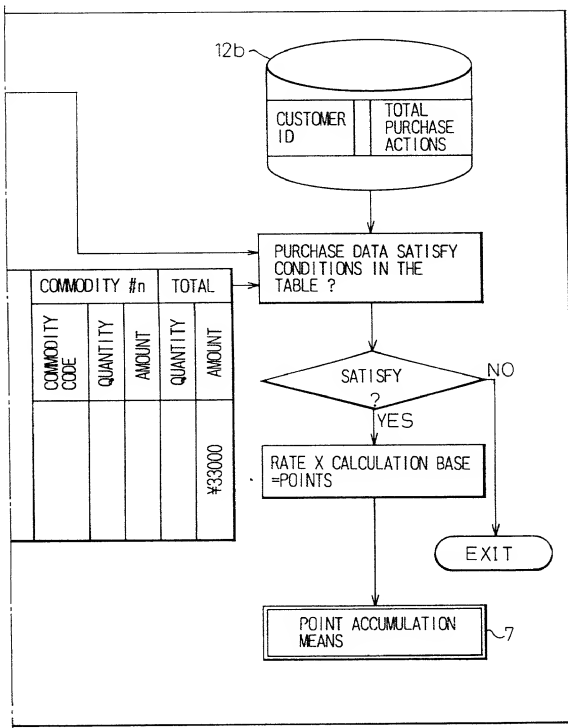


Fig.16(B)



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Fig.17(A)

Fig.17

Fig.17(A) Fig.17(B)

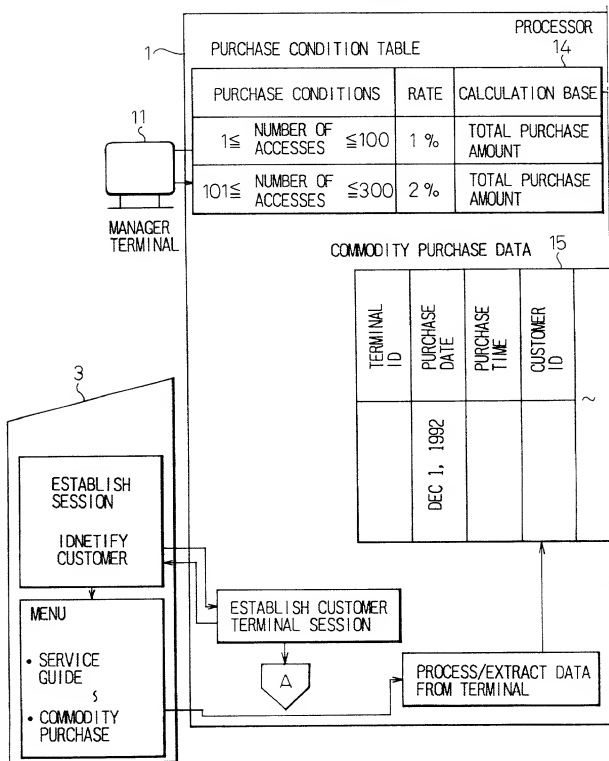
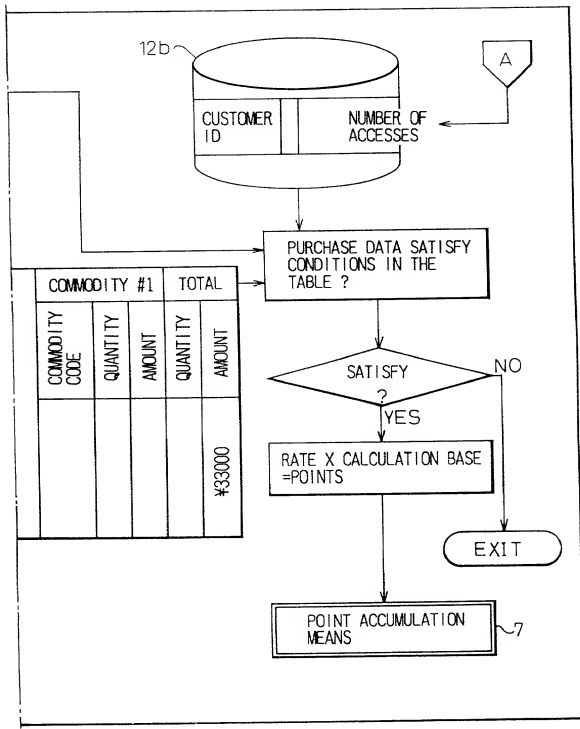


Fig.17(B)

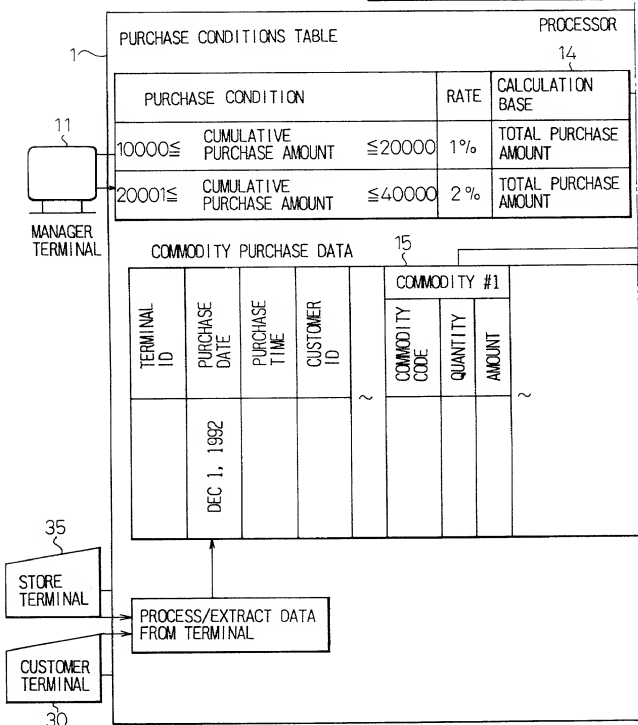


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Fig.18(A)

Fig.18

Fig.18(A) Fig.18(B)



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Fig.18(B)

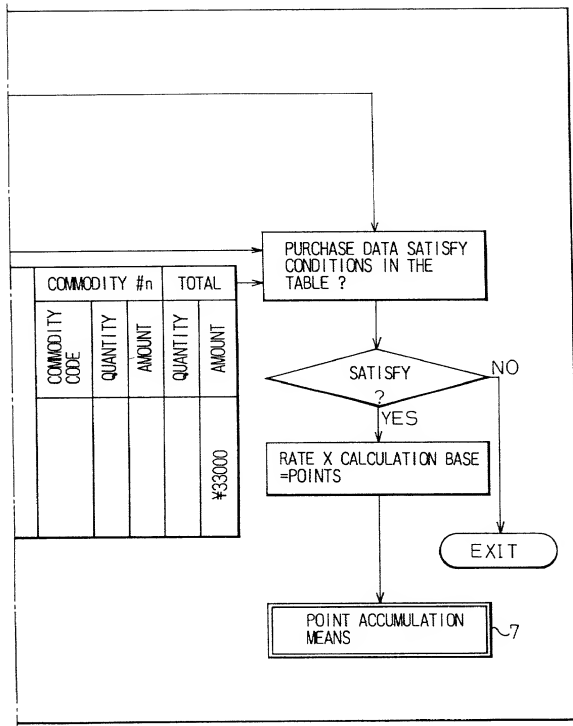


Fig.19(A)

Fig.19

Fig.19(A) Fig.19(B)

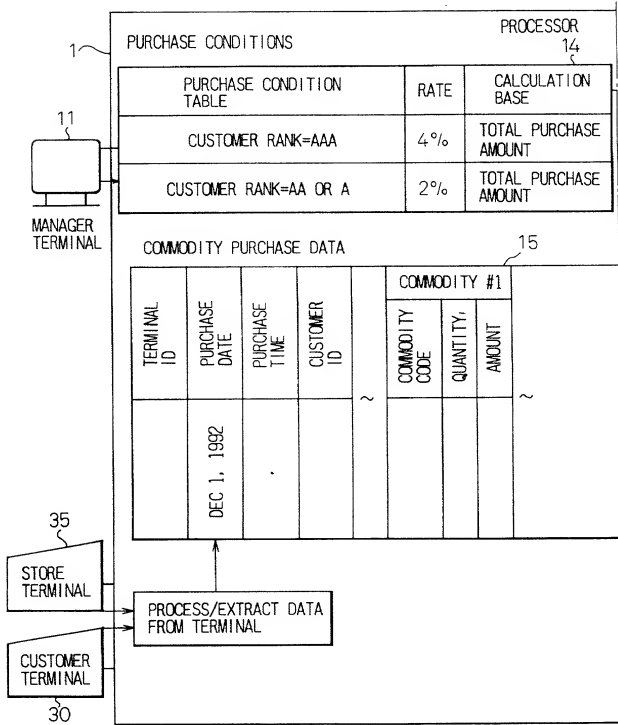


Fig.19(B)

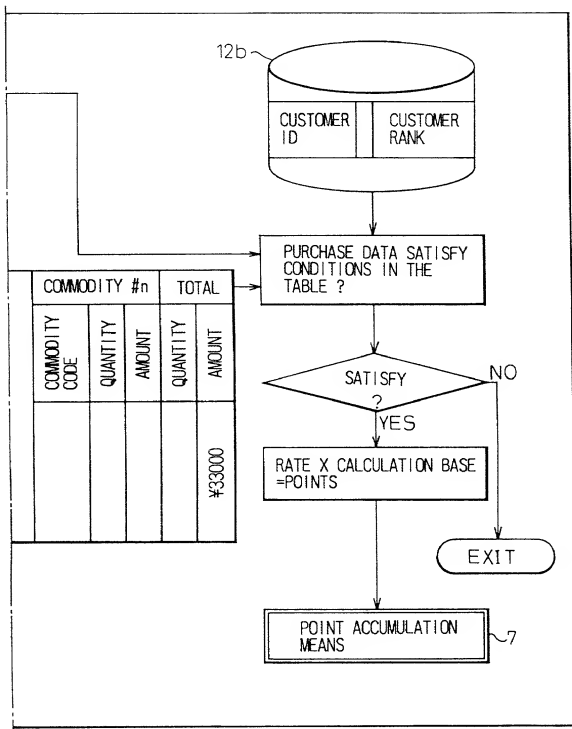


Fig. 20

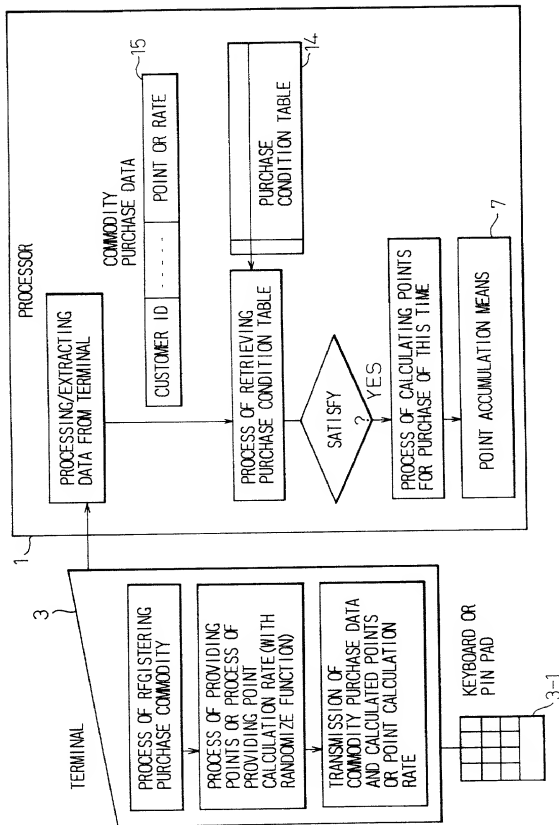


Fig.21

Fig.21(A)

Fig.21(A) Fig.21(B)

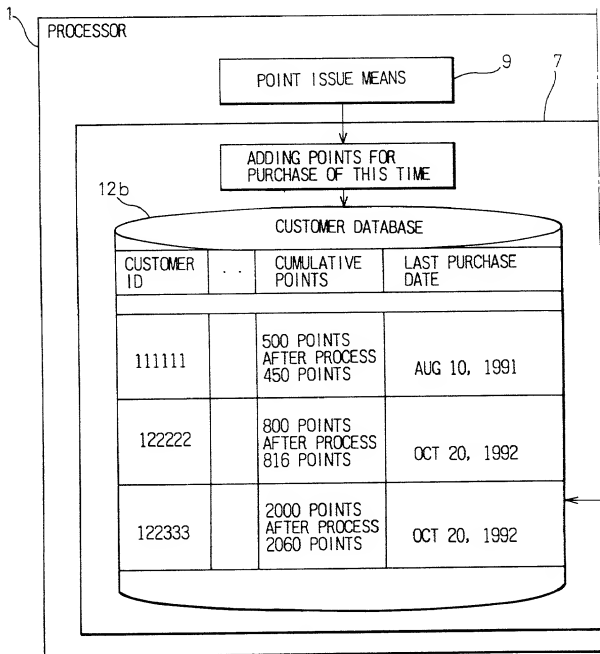


Fig.21(B)

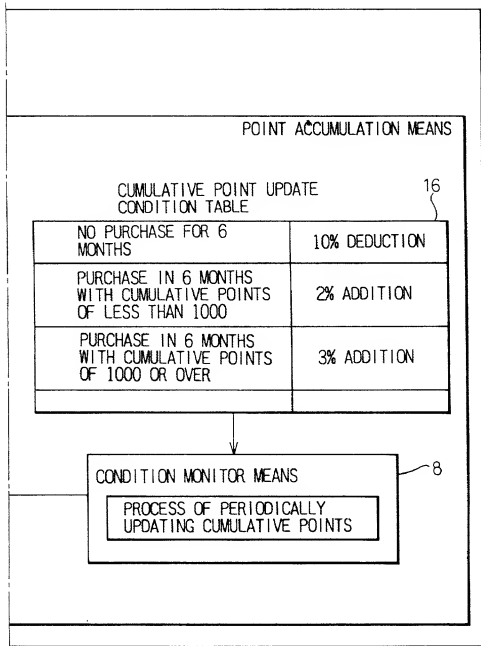


Fig. 22

Fig. 22(A)
Fig. 22(B)

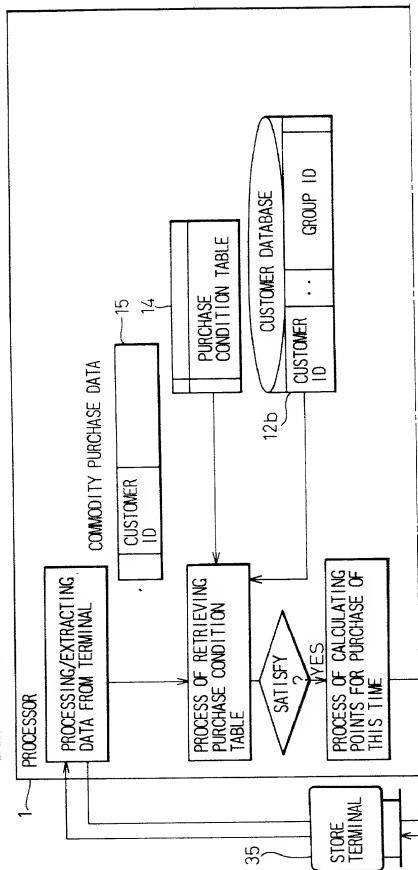


Fig.22(B)

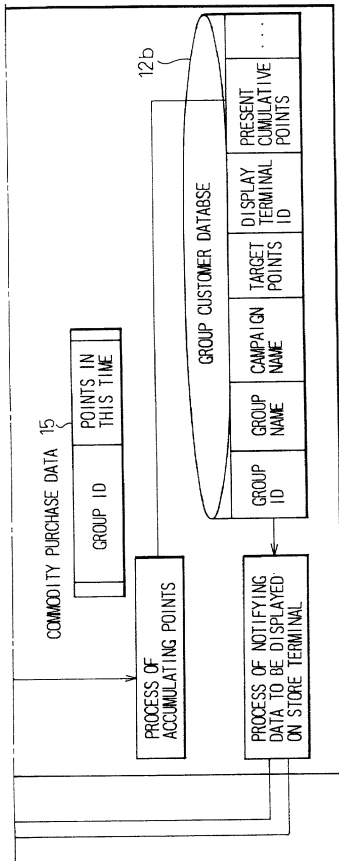
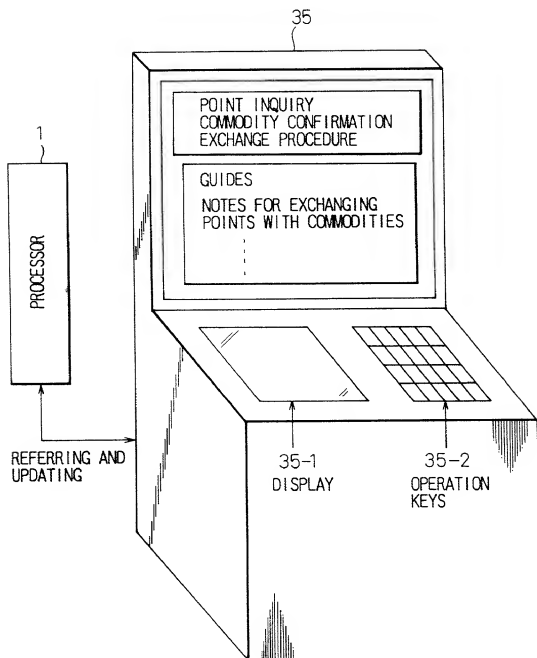


Fig. 23



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Fig.24 (A)

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CUSTOMER ID	NAME	CUMULATIVE POINTS			
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COMMODITY NO.	1	2	3	4
REQUIRED POINTS				
EXCHANGEABILITY				
COMMODITY NAME				
PICTURE OF COMMODITY				

35-1a

↑ PREVIOUS PAGE

↓ NEXT PAGE

END

35-1f

35-1b

PROCEDURE EXCHANGING PROCEDURE

35-1c

EXCHANGING PROCEDURE					
SPECIFIED COMMODITY NO.	①	②	③	④	⑤
REQUIRED POINTS					
TOTAL POINTS					
BALANCE OF POINTS					

D K

35-1d

PROCEDURE DETERMINATION

CANCEL

35-1e

Fig.24 (B)

35-3

DEPOSIT AMOUNT DISPLAY	CHANGE	CHANGE DISPLAY
35-3a	CUMULATIVE POINTS	CUMULATIVE POINTS DISPLAY

35-3b

35-3c

Fig. 25

Fig. 25(A)

Fig. 25(A) Fig. 25(B)

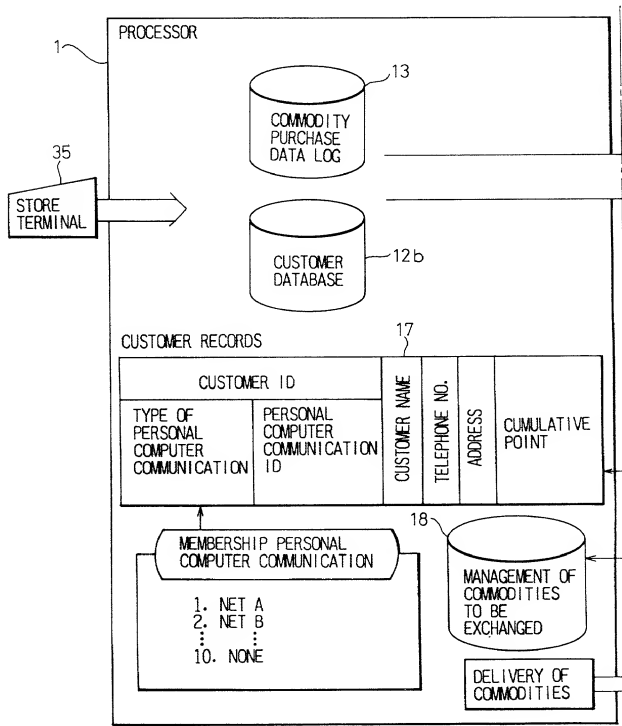


Fig.25(B)

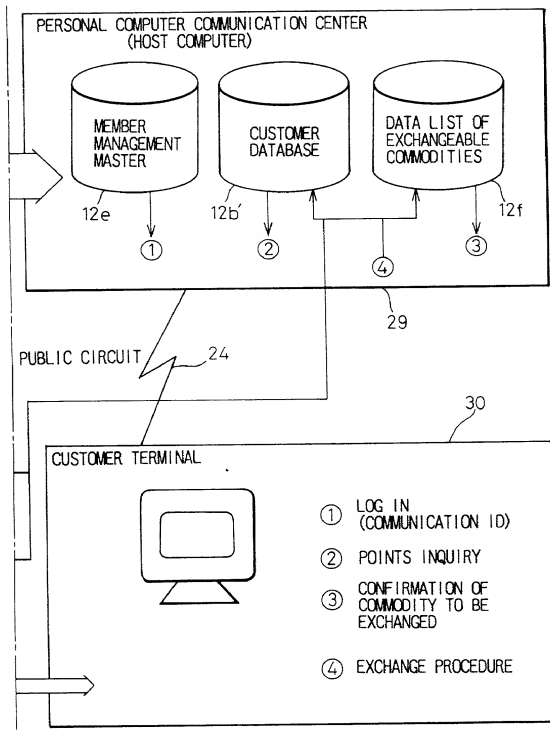


Fig.26

Fig.26(A)

Fig.26(A) Fig.26(B)

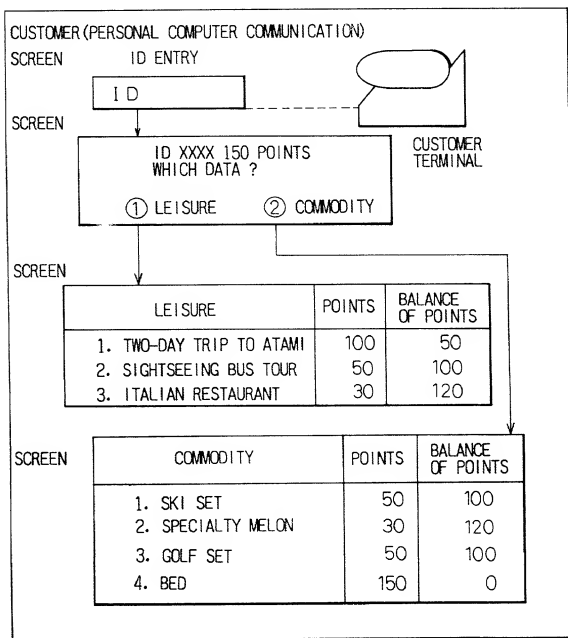


Fig.26(B)

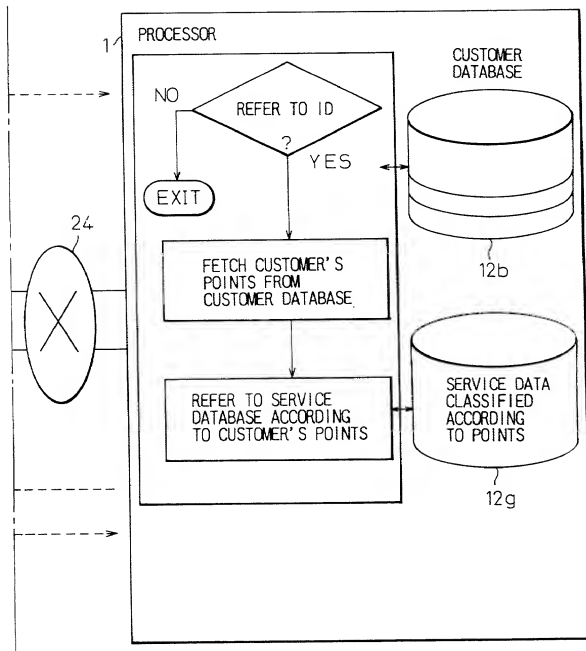


Fig. 27

Fig. 27(A)

Fig. 27(A) Fig. 27(B)

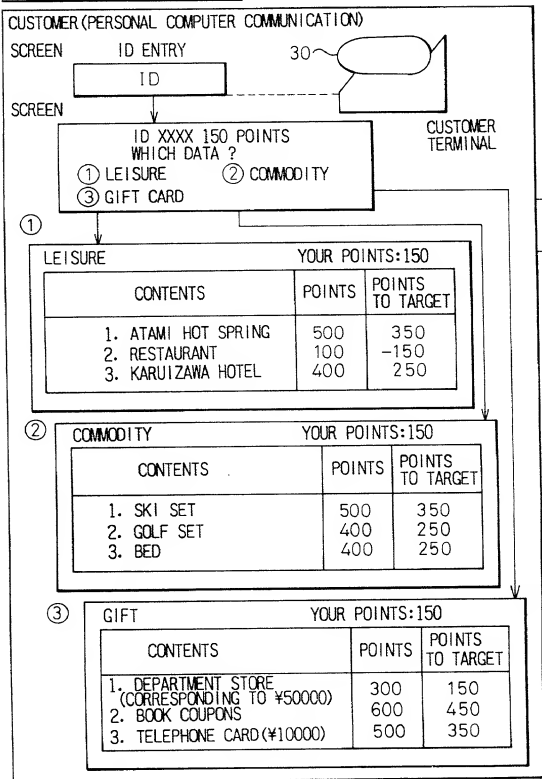


Fig.27(B)

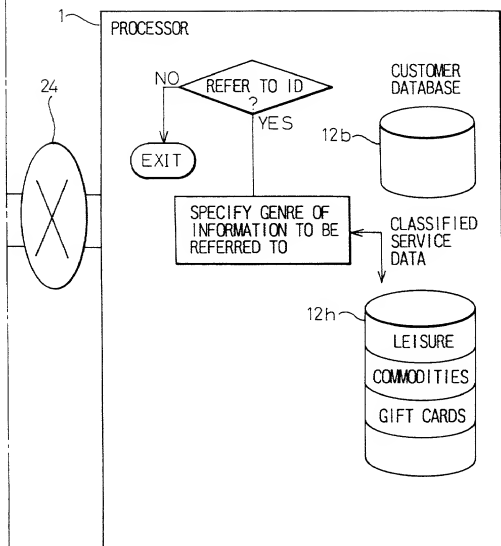


Fig. 28

Fig.28(A)

Fig.28(A) Fig.28(B)

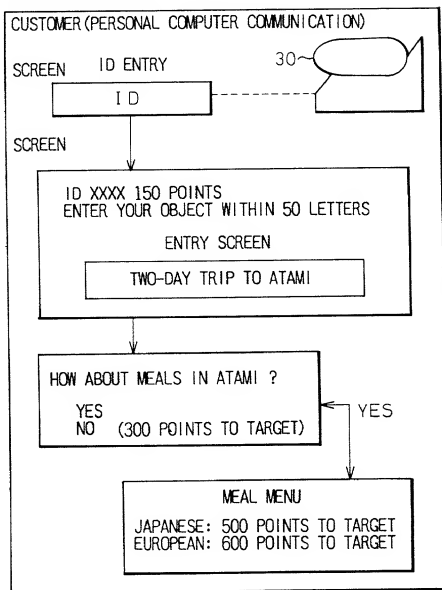


Fig.28(B)

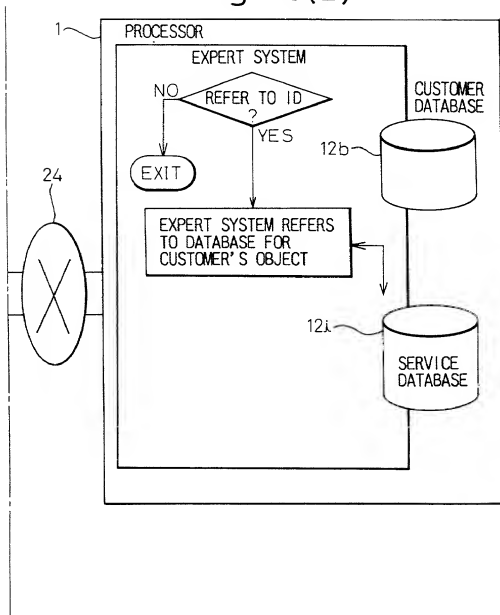


Fig.25

Fig.29(A) Fig.29(B)

Fig.29(A)

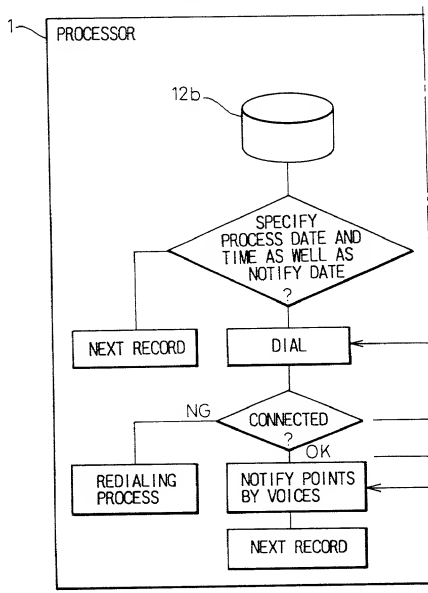
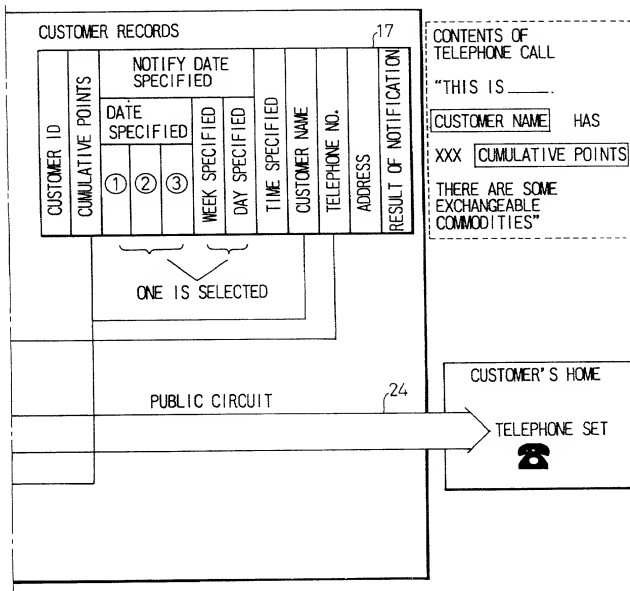


Fig.29(B)



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Fig.30 (A)

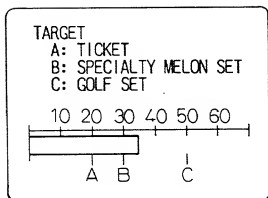
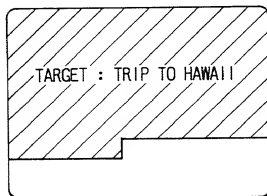


Fig.30 (B)



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Fig.30 (C)

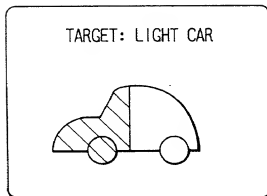


Fig.30 (D)

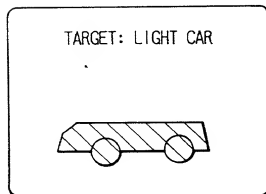
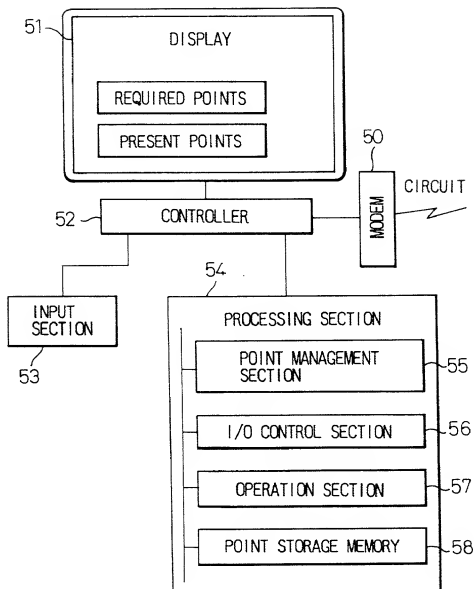


Fig.31



COMBINED DECLARATION/POWER OF ATTORNEY FOR UTILITY/DESIGN PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

SERVICE POINT MANAGEMENT SYSTEM FOR USE IN SALES PROMOTION SERVICES

the specification of which (check one) ☒ is attached hereto ☐ was filed on _____ as U.S. Application Serial No. _____ and was amended on _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in §1.56. I hereby claim foreign priority benefit(s) under 35 U.S.C. §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

5-82905(Pat.Appln.)
(Number)

Japan
(Country)

9/April/1993
Day/Month/Year Filed

☒ Yes ☐ No

(Number)

(Country)

Day/Month/Year Filed

☐ Yes ☐ No

I hereby claim the benefit under 35 U.S.C. §120 of any U.S. application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, and I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)

(Filing Date)

(Status: patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status: patented, pending, abandoned)

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorneys and agents: James D. Halsey, Jr., Reg. No. 22,729; Harry John Staats, 22,010; David M. Pitcher, 25,908; Gene W. Stockman, 21,021; John C. Garvey, 28,607; J. Randall Beckers, 30,358; James H. Marsh, Jr., 24,533; William F. Herbert, 31,024; Richard A. Gollhofer, 31,106; Carla M. Krivak, 30,956; Matthew J. Bussan, 33,614; Daniel W. Jufferbruch, 33,122; Jon M. Jurgovan, 34,633; Scott D. Balderston, 35,436; Mark J. Henry, 36,162; and Paul F. Daebeler, 35,852 to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. Send correspondence to: STAAS & HALSEY, 1825 K Street, N.W., Suite 810, Washington, D.C., 20006, and direct telephone calls to: (202) 872-0123

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Tokimori TomitaInventor's Signature Tokimori Tomita Date Jan. 17, 1994Residence Kawasaki-shi, Kanagawa, JapanCitizenship JapanesePost Office Address c/o FUJITSU LIMITED, 1015, Kamikodanaka, Nakahara-ku, Kawasaki-shi, Kanagawa 211, JapanFull name of second joint inventor, if any Akihiko ShigetaSecond Inventor's Signature Shigeta Akihiko Date Jan. 17, 1994Residence Kawasaki-shi, Kanagawa, JapanCitizenship Japanese

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(Supply similar information and signature lines for third and subsequent joint inventors.)

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Inventor's Signature Masao Fujiwara Date Jan. 17, 1994
Residence Kawasaki-shi, Kanagawa, Japan

Citizenship Japanese
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Kawasaki-shi, Kanagawa 211, Japan

Full name of fourth joint inventor, if any Mamoru Matsumoto
Inventor's Signature Mamoru Matsumoto Date Jan. 17, 1994
Residence Kawasaki-shi, Kanagawa, Japan

Citizenship Japanese
Post Office Address c/o FUJITSU LIMITED, 1015, Kamikodanaka, Nakahara-ku,
Kawasaki-shi, Kanagawa 211, Japan

Full name of fifth joint inventor, if any Yasunasa Hiroshima
Inventor's Signature Yasunasa Hiroshima Date Jan. 17, 1994
Residence Kawasaki-shi, Kanagawa, Japan

Citizenship Japanese
Post Office Address c/o FUJITSU LIMITED, 1015, Kamikodanaka, Nakahara-ku,
Kawasaki-shi, Kanagawa 211, Japan

Full name of sixth joint inventor, if any Mitsuhiro Matsumoto
Inventor's Signature Mitsuhiro Matsumoto Date Jan. 17, 1994
Residence Kawasaki-shi, Kanagawa, Japan

Citizenship Japanese
Post Office Address c/o FUJITSU LIMITED, 1015, Kamikodanaka, Nakahara-ku,
Kawasaki-shi, Kanagawa 211, Japan

Full name of seventh joint inventor, if any Satoshi Tomari
Inventor's Signature Satoshi Tomari Date Jan. 17, 1994
Residence Kawasaki-shi, Kanagawa, Japan

Citizenship Japanese
Post Office Address c/o FUJITSU LIMITED, 1015, Kamikodanaka, Nakahara-ku,
Kawasaki-shi, Kanagawa 211, Japan

Full name of eighth joint inventor, if any _____
Inventor's Signature _____ Date _____
Residence _____

Citizenship _____
Post Office Address _____